Iowa Department of Natural Resources
Title V Operating Permit

Name of Permitted Facility: Maytag Appliances – Amana Refrigeration Products
Facility Location: 2800 220th Trail, Amana, IA 52204
Air Quality Operating Permit Number: 01-TV-013-M001
Expiration Date: 5/28/06

EIQ Number: 92-0185
Facility File Number: 48-05-001

Responsible Official
Name: Terry A. Shook
Title: Vice President, Operations, Amana Refrigeration Products
Mailing Address: 2800 220th Trail, Amana, IA 52204
Phone #: 319-622-8164

Permit Contact Person for the Facility
Name: Melody Evans
Title: Sr. Environmental Specialist
Mailing Address: 2800 220th Trail, Amana, IA 52204
Phone #: 319-622-2632

This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

For the Director of the Department of Natural Resources

Douglas A. Campbell, Supervisor of Air Operating Permits Section Date

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Abbreviations

acfm ..... actual cubic feet per minute
CFR ..... Code of Federal Regulation
^{o}F ..... degrees Fahrenheit
EIQ ..... emissions inventory questionnaire
EP's ..... Emission Points
ft^2/hr ..... square feet per hour
gal/hr ..... gallons per hour
gr./dscf ..... grains per dry standard cubic foot
gr./100 cf ..... grains per one hundred cubic feet
IAC ..... Iowa Administrative Code
IDNR ..... Iowa Department of Natural Resources
LPG ..... Liquid Propane Gas
MVAC ..... motor vehicle air conditioner
NSPS ..... new source performance standard
ppmv ..... parts per million by volume
lb./hr ..... pounds per hour
lb./MMBtu ..... pounds per million British thermal units
SIC ..... Standard Industrial Classification
scfm ..... standard cubic feet per minute
TPY ..... Tons per year
USEPA ..... United States Environmental Protection Agency

Pollutants

PM ..... particulate matter (equivalent to TSP, total suspended particulate)
PM_{10} ..... Particulate matter ten microns and less in diameter
SO_2 ..... sulfur dioxide
NO_x ..... nitrogen oxides
VOC ..... volatile organic compound
CO ..... carbon monoxide
HAP ..... hazardous air pollutant
HCl ..... Hydrogen Chloride (Hydrochloric Acid)

NSPS

C_a ..... the concentration of VOC's in a gas stream leaving a control device and entering the atmosphere (parts per million by volume, as carbon).
C_b ..... the concentration of VOC's in a gas stream entering a control device (parts per million by volume, as carbon).
C_f ..... the concentration of VOC's in a gas stream emitted directly to the atmosphere (parts per million by volume, as carbon).
D_c ..... density of coating (or input stream), as received (kilograms per liter).

D_d ..... density of a VOC-solvent added to coatings (kilograms per liter).

D_r ..... density of a VOC-solvent recovered by an emission control device (kilograms per liter).

E ..... the VOC destruction efficiency of a control device (fraction).

F..... the proportion of total VOC's emitted by an affected facility that enters a control device (fraction).

G..... the volume-weighted average mass of VOC's in coatings consumed in a calendar month per unit volume of applied coating solids (kilograms per liter).

L_c ..... the volume of coating consumed, as received (liters).

L_d ..... the volume of VOC-solvent added to coatings (liters).

L_r ..... the volume of VOC-solvent recovered by an emission control device (liters).

L_s ..... the volume of coating solids consumed (liters).

M_d ..... the mass of VOC-solvent added to coatings (kilograms).

M_o ..... the mass of VOC's in coatings consumed, as received (kilograms).

M_r ..... the mass of VOC's recovered by an emission control device (kilograms).

N..... the volume-weighted average mass of VOC's emitted to the atmosphere per unit volume of applied coating solids (kilograms per liter).

Q_a ..... the volumetric flow rate of a gas stream leaving a control device and entering the atmosphere (dry standard cubic meters per hour).

Q_b ..... the volumetric flow rate of a gas stream entering a control device (dry standard cubic meters per hour).

Q_f ..... the volumetric flow rate of a gas stream emitted directly to the atmosphere (dry standard cubic meters per hour).

R ..... the overall VOC emission reduction achieved for an affected facility (fraction).

T ..... the transfer efficiency (fraction).

V_s ..... the proportion of solids in a coating (or input stream), as received (fraction by volume).

W_o ..... the proportion of VOC's in a coating (or input stream), as received (fraction by weight).

I. Facility Description and Equipment List

Facility Name: Maytag Appliances – Amana Refrigeration Products
Permit Number: 01-TV-013-M001

Facility Description: Household Refrigerator and Freezer Manufacture (SIC 3632)

Significant Equipment List

Emission Point Number	Associated Emission Unit Number(s)	Associated Emission Unit Description
5a	5-1	Hand Spray Paint Booth
5b		
5c		
8	8-1	Paint Filter Drying Oven
9	9-1	Sterling #2 ABS Extruder
11	11-1	Line 8 Cabinet Foam Fixture
12a	12-1	White E-Coat Washer
12b		
12c		
13a	13-1	White E-Coat Dry Off Oven
13b		
14	14-1	White E-Coat Tank Vestibule
15	15-1	White E-Coat Dehydration Oven
16a	16-1	White E-Coat Bake Oven
16c		
16d		
17a	17-1	Cavity Washer
17d		
18a	18-1	Black E-Coat Washer
18b		
18c		
19	19-1	Black E-Coat Tank
25	25-1	White Goods Hand Spray Oven
26a	26-1	Black E- Coat Cure Oven
26b		
26c		
27	27-1	White Goods Bake Oven

Significant Equipment List (cont.)

Emission Point Number	Associated Emission Unit Number(s)	Associated Emission Unit Description
34	34-1	Styrene Extruder
	34-2	Styrene Extruder
37-1	37-1	EPS Pre-Extruder
37-2	37-2	EPS Bag Storage
37-3	37-3	EPS Condensate Vent 1
37-4	37-4	EPS Condensate Vent 2
37-5	37-5	EPS Condensate Vent 3
38-1	38-1	EPS Boiler (10.6 MMBtu/hr)
40	40-1	Line 8 Foam Fixture (A)
41	41-1	Sterling ABS Extruder
43	43-1	Model Shop Paint Booth
44	44-1	Boiler #1 (56.32 MMBtu/hr)
	79-1	Boiler #2 (14.7 MMBtu/hr)
47	47-1	Door Foam Preheat Oven
48	48-1	TM/BM Door Foam
	48-2	TM/BM Door Foam
49	49-1	Door Foam Cure Oven
50	50-1	Door Foam Cure Oven
51	51-1	Door Foam Preheat Oven
52	52-1	Door Foam Cure Oven
53	53-1	Door Foam Cure Oven
54	54-1	Touch Up Paint Booth #1
60	60-1	Line 92 Cabinet Foam
	60-2	Line 92 Cabinet Foam
61	61-1	Touch Up Paint Booth #5
63	63-1	Line 92 Foam Preheat Burners
64	64-1	Touch Up Paint Booth #6
65	65-1	ABS Coextruder
	65-2	ABS Coextruder
66	66-1	Pellet Humidifier Dryer
67	67-1	Pellet Humidifier Dryer
70	70-1	Gasoline Redemption Scrubber
71	71-1	South Fire House Pump
74	74-1	Wastewater Treatment Diesel Generator
75	75-1	North Fire House Pump
77	77-1	UPS Generator
78	78-1	UPS Generator

Significant Equipment List (cont.)

Emission Point Number	Associated Emission Unit Number(s)	Associated Emission Unit Description
79	44-1	Boiler #1 (56.32 MMBtu/hr)
	79-1	Boiler #2 (14.7 MMBtu/hr)
91	91-1	Building 66 Heater-North (2.25 MMBtu/hr)
92	92-1	Building 66 Heater-South (2.25 MMBtu/hr)
110	110-1	Building 52 Heater-South (2.25 MMBtu/hr)
111	111-1	Building 52 Heater-North (2.25 MMBtu/hr)
116	116-1	Building 61 Heater-North (2.05 MMBtu/hr)
134	134-1	Fluidized Paint Stripper
	134-1A	Natural Gas Burner
135-1	135-1	Powder Coat Parts Washer
135-2	135-2	Powder Coat Parts Washer
135-3	135-3	Powder Coat Parts Washer
135-4	135-4	Powder Coat Parts Washer
135-5	135-5	Powder Coat Parts Washer
135-6a	135-6a	Powder Coat Parts Washer
135-6b	135-6b	Powder Coat Parts Washer
135-7	135-7	Powder Coat Parts Washer
135-8	135-8	Powder Coat Dry Off Oven
135-9	135-9	Powder Coat Cure Oven
135-10	135-10	Powder Coat Cure Oven
135-11a	135-11a	Powder Coat Cooling Tunnel
135-11b	135-11b	Powder Coat Cooling Tunnel
140	140	Acid Wash Tank
141	141	Waste Water Tanks
144	144	Building 52 Door Foam
145	145	Building 52 Cabinet Foam
146	146	Building 52 Brazing Foam
147	147	Chemical Tote Vent

Significant Equipment List (cont.)

F-BRAZE	f-001	Line 92 Braze Station (Vents Internally)
	f-003	Line 92 Freon Charge Braze Station (Vents Internally)
	f-005	Line 92 Braze Station (Vents Internally)
	f-019	Line 8 Braze Station (Vents Internally)
	f-021	Line 8 Braze Station (Vents Internally)
	f-029	Line 8 Freon Charge Braze Station (Vents Internally)
	f-041	Line 2 Braze Station (Vents Internally)
	f-043	Braze Training Station (Vents Internally)
	f-046	Line 2 Braze Station (Vents Internally)
	f-050	Line 2 Freon Charge Braze Station (Vents Internally)
	f-169	Hobart Brazing-Tubing (Vents Internally)
F-MOLDING	f-013	Rotovac Molder (Vents Internally)
	f-030	Rotovac Molder (Vents Internally)
	f-031	Rotovac Molder (Vents Internally)
	f-032	Rotovac Molder (Vents Internally)
	f-033	Rotovac Molder (Vents Internally)
	f-034	Rotovac Molder (Vents Internally)
	f-035	Rotovac Molder (Vents Internally)
F-WELDING	f-016	RWC Door Gas Welder (Vents Internally)
	f-112	Model Shop Welder (Vents Internally)
	f-149	Construction Welder (Vents Internally)
F-MISC.	f-014	In Line Thermoformer (Vents Internally)
	f-015	In Line Thermoformer (Vents Internally)
	f-135	Wood Working Area Saw (Vents Internally)
	f-150	Gas Blender Bleed Off Burner (Vents Internally)
	f-192	Air Make-Up Unit Burner (Vents Internally)

Insignificant Equipment List

Insignificant Emission Unit Number	Insignificant Emission Unit Description
59-1	Waste Water Treatment Tanks
69-1	Engineering Lab Boiler
72-1	South Fire House Boiler
73-1	South Fire House Boiler
76-1	North Fire House Boiler
131-1	Line 8 (Side by Side) Foam Fixture
AMU-1	10 Air Make-Up Burners (between 2.97 and 7.88 MMBtu/hr)
BH-1	21 Building Heaters (between 0.51 and 1.46 MMBtu/hr)
DH-1	25 Door Heaters (between 0.12 and 0.97 MMBtu/hr)
PH-1	10 Process Heaters (between 0.17 and 0.35 MMBtu/hr)
SH-1	12 Space Heaters (between 0.06 and 0.13 MMBtu/hr)
f-017	RWC Auto Door Welding
f-028	Line 8 Foam Fixture
f-037	Sulfuric Acid Tank
f-038	Sulfuric Acid Tank
f-039	Black E-Coat Tank
f-051	ABS Extruder Cooling Water
f-053	Paint Re-Work
f-074	RWC Cabinet Spot Welder
f-075	Link Cabinet Welder
f-076	Side by Side Spot Welder – 1
f-077	Side by Side Spot Welder – 2
f-078	Panasonic Spot Welder
f-079	Cavity Welder
f-080	Weltronic Spot Welder
f-081	Link Door Welder
f-082	ACME Press Menumaster Welder
f-091	ACME Press Menumaster Welder
f-093	ACME Press Menumaster Welder
f-094	ACME Menumaster Welder
f-095	ACME Menumaster Welder
f-096	Technitron Hand Welder
f-097	Banner Welder
f-135-12	Powder Coat Booths (3)
f-149	Maintenance Welding
f-215	Solvent Parts Washer

II. Plant-Wide Conditions

Facility Name: Maytag Appliances – Amana Refrigeration Products
Permit Number: 01-TV-013-M001

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

Permit Duration

The term of this permit is: Five (5) years from permit issuance
Commencing on: 5/29/01
Ending on: 5/28/06

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

Source Operating Limits

Process Throughput:

1. The burners used in powder coat line 135 shall be fired by natural gas or propane only.
2. The VOC content of any paint used in powder coat line 135 shall not exceed 1.623% (by weight).
3. The amount of paint used in powder coat line 135 shall not exceed 1,095,000 lb per 12-month period rolled monthly.

Reporting & Record Keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The type of fuel used.
2. The VOC content of any paint used in powder coat line 135, by weight (lb VOC/lb paint).
3. The quantity of paint used in pounds per 12-month period rolled monthly.

Authority for Requirement: Iowa DNR Construction Permits 98-A-173, 98-A-174, 98-A-175, 98-A-176, 98-A-177, 98-A-178, 98-A-179, 98-A-180, 98-A-181, 98-A-182S1, 98-A-183S1, 98-A-184, 98-A-185.

Emission Limits
Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:

Opacity (visible emissions): 40% opacity
Authority for Requirement: 567 IAC 23.3(2)"d"

Sulfur Dioxide (SO_2): 500 parts per million by volume
Authority for Requirement: 567 IAC 23.3(3)"e"

Particulate Matter (state enforceable only)[1]:
No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.
For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).
Authority for Requirement: 567 IAC 23.3(2)"a" (as revised 7/21/1999)

Particulate Matter (federally enforceable)[2]:
The emission of particulate matter from any process shall not exceed the amount determined from Table I, except as provided in 567 — 21.2(455B), 23.1(455B), 23.4(455B) and 567 — Chapter 24. If the director determines that a process complying with the emission rates specified in Table I is causing or will cause air pollution in a specific area of the state, an emission standard of 0.1 grain per standard cubic foot of exhaust gas may be imposed.
Authority for Requirement: 567 IAC 23.3(2)"a" (prior to 7/21/1999)

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has

[1] This is the current language in the Iowa Administrative Code (IAC). This version of the rule is awaiting EPA approval to become part of Iowa's State Implementation Plan (SIP). When EPA approves this rule, it will replace the older version and will be considered federally enforceable.
[2] This is the current language in the Iowa SIP, and is enforceable by EPA.

received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

Authority for Requirement: 567 IAC 23.3(2)"c"

Compliance Plan

The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.

Unless otherwise noted in Section III of this permit, Maytag Appliances – Amana Refrigeration Products is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which become effective during the permit term, Maytag Appliances – Amana Refrigeration Products shall comply with such requirements in a timely manner.

Authority for Requirement: 567 IAC 22.108(15)

Section 112(j) of the Clean Air Act (MACT Hammer)

On 5/1/02, Maytag Appliances – Amana Refrigeration Products submitted a Part 1 MACT application to IDNR, indicating that the facility may be subject to the MACT standard for Industrial/Commercial/Institutional Boilers & Process Heaters, 40 CFR 63 Subpart DDDDD, when it's promulgated. Maytag Appliances – Amana Refrigeration Products must submit a Part 2 MACT application to IDNR by the deadline specified in 40 CFR 63.52(e), if 40 CFR 63 Subpart DDDDD has not been promulgated by that date.

Authority for Requirement: 40 CFR 63.52; 567 IAC 23.1(4)"b"(2)

New Source Performance Standards (NSPS) Requirements

Terms and Conditions:
The Permittee shall comply with all applicable requirements of 40 CFR 60 Subpart SS – Standards of Performance for Industrial Surface Coating: Large Appliances and Subpart A - General Provisions. (Note: citations are consistent with those in the 40 CFR)

Subpart SS applies to Emission Units 5-1, 14-1, 15-1, 16-1, 25-1, 26-1, 27-1, 54-1, 61-1 and 64-1.

Subpart SS

Sec. 60.452 Standard for Volatile Organic Compounds.

On or after the date on which the performance test required by Sec. 60.8 is completed, no owner or operator of an affected facility subject to the provisions of this subpart shall discharge or cause the discharge of VOC emissions that exceed 0.90 kilogram of VOC's per liter of applied coating solids from any surface coating operation on a large appliance surface coating line.

Sec. 60.453 Performance Test and Compliance Provisions.

(a) Sections 60.8 (d) and (f) do not apply to the performance test procedures required by this subpart.
(b) The owner or operator of an affected facility shall conduct an initial performance text as required under Sec. 60.8(a) and thereafter a performance test each calendar month for each affected facility according to the procedures in this paragraph.
(1) An owner or operator shall use the following procedures for any affected facility that does not use a capture system and control device to comply with the emissions limit specified under Sec. 60.452. The owner or operator shall determine the composition of the coatings by formulation data supplied by the coating manufacturer or by analysis of each coating, as received, using Reference Method 24. The Administrator may require the owner or operator who uses formulation data supplied by the coating manufacturer to determine the VOC content of coatings using Reference Method 24. The owner or operator shall determine the volume of coating and the mass of VOC-solvent used for thinning purposes from company records on a monthly basis. If a common coating distribution system serves more than one affected facility or serves both affected and existing facilities, the owner or operator shall estimate the volume of coatings used at each facility, by using the average dry weight of coating and the surface area coated by each affected and existing facility or by other procedures acceptable to the Administrator.
(i) Except as provided in paragraph (b)(1)(iv) of this section, the weighted average of the total mass of VOC's consumed per unit volume of coating solids applied each calendar month will be determined as follows.
(A) Calculate the mass of VOC's consumed ($M_o + M_d$) during the calendar month for each affected facility by the following equation:

$$M_o + M_d = \sum_{i=1}^{n} L_{ci} D_{ci} W_{oi} + \sum_{j=1}^{m} L_{dj} D_{dj}$$

($\Sigma L_{dj} D_{dj}$ will be 0 if no VOC-solvent is added to the coatings, as received)
where:
n is the number of different coatings used during the calendar month, and
m is the number of different VOC-solvents added to coatings during the calendar month.

(B) Calculate the total volume of coatings solids used (Ls) in the calendar month for each affected facility by the following equation:

$$L_s = \sum_{i=1}^{n} L_{ci} V_{si}$$

where:
n is the number of different coatings used during the calendar month.

(C) Select the appropriate transfer efficiency from Table 1. If the owner or operator can demonstrate to the satisfaction of the Administrator that transfer efficiencies other than those shown are appropriate, the Administrator will approve their use on a case-by-case basis. Transfer efficiencies for application methods not listed shall be determined by the Administrator on a case-by-case basis. An owner or operator must submit sufficient data for the Administrator to judge the accuracy of the transfer efficiency claims.

Table 1--Transfer Efficiencies

Application method	Transfer efficiency (T_k)
Air-atomized spray	0.40
Airless spray	0.45
Manual electrostatic spray	0.60
Flow coat	0.85
Dip coat	0.85
Nonrotational automatic electrostatic spray	0.85
Rotating head automatic electrostatic spray	0.90
Electrodeposition	0.95

Where more than one application method is used within a single surface coating operation, the owner or operator shall determine the composition and volume of each coating applied by each method through a means acceptable to the Administrator and compute the weighted average transfer efficiency by the following equation:

$$T = \frac{\sum_{i=1}^{n}\sum_{k=1}^{m} LcjkVsjkTk}{Ls}$$

where:
n is the number of coatings (or input streams) used, and
m is the number of application methods used.

(D) Calculate the volume-weighted average mass of VOC's consumed per unit volume of coating solids applied (G) during the calendar month for each affected facility by the following equation:

$$G = \frac{Mo + Md}{LsT}$$

(ii) Calculate the volume-weighted average of VOC emissions to the atmosphere (N) during the calendar month for each affected facility by the following equation:

$$\mathbf{N = G}$$

(iii) Where the volume-weighted average mass of VOC's discharged to the atmosphere per unit volume of coating solids applied (N) is equal to or less than 0.90 kilogram per liter, the affected facility is in compliance.

(iv) If each individual coating used by an affected facility has a VOC content, as received, which when divided by the lowest transfer efficiency at which the coating is applied, results in a value equal to or less than 0.90 kilogram per liter, the affected facility is in compliance, provided no VOC's are added to the coating during distribution or application.

Sec. 60.455 Reporting and Record Keeping Requirements.

(a) The reporting requirements of Sec. 60.8(a) apply only to the initial performance test. Each owner or operator subject to the provisions of this subpart shall include the following data in the report of the initial performance test required under Sec. 60.8(a):

(1) Except as provided in paragraph (a)(2) of this section, the volume-weighted average mass of VOC's emitted to the atmosphere per volume of applied coating solids (N) for a period of 1 calendar month from each affected facility.

(2) For each affected facility where compliance is determined under the provisions of Sec. 60.453(b)(1)(iv), a list of the coatings used during a period of 1 calendar month, the VOC content of each coating calculated from data determined using Reference Method 24 or supplied by the coating manufacturer, and the minimum transfer efficiency of any coating application equipment used during the month.

(b) Following the initial performance test, the owner or operator of an affected facility shall identify, record, and submit a written report to the Administrator every calendar quarter of each instance in which the volume-weighted average of the total mass of VOC's emitted to the atmosphere per volume of applied coating solids (N) is greater than the limit specified under Sec. 60.452. If no such instances have occurred during a particular quarter, a report stating this shall be submitted to the Administrator semiannually.

(d) Each owner or operator subject to the provisions of this subpart shall maintain at the source, for a period of at least 5 years, records of all data and calculations used to determine VOC emissions from each affected facility.

Sec. 60.456 Test methods and procedures.

(a) The reference methods in Appendix A to this part, except as provided under Sec. 60.8(b), shall be used to determine compliance with Sec. 60.452 as follows:

(1) Method 24 or formulation data supplied by the coating manufacturer to determine the VOC content of a coating. In the event of dispute, Reference Method 24 shall be the reference method. For determining compliance only, results of Method 24 analyses of waterborne coatings shall be adjusted as described in subsection 4.4 of Method 24. Procedures to determine VOC emissions are provided in Sec. 60.453.

(b) For Method 24, the coating sample must be a 1-liter sample taken into a 1-liter container at a point where the sample will be representative of the coating material.

Subpart A

Sec. 60.11 Compliance with Standards and Maintenance Requirements.

(d) At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

Sec. 60.12 Circumvention.

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous dilutents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

Authority for Requirement: 40 CFR 60 Subpart SS, and Subpart A
567 IAC 23.1(2)"kk"

III. Emission Point-Specific Conditions

Facility Name: Maytag Appliances – Amana Refrigeration Products
Permit Number: **01-TV-013-M001**

Emission Point ID Number: 5a

Associated Equipment

Associated Emission Unit ID Number: 5-1
Emissions Control Equipment ID Number: 5
Emissions Control Equipment Description: Dry Filter

Applicable Requirements

Emission Unit vented through this Emission Point: 5-1
Emission Unit Description: Hand Spray Paint Booth
Raw Material/Fuel: Paints
Rated Capacity: 1.0 gal/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 5%
Authority for Requirement: Iowa DNR Construction Permit 87-A-124-S2
567 IAC 23.3(2)"d"

Pollutant: PM-10
Emission Limit(s): Combined emissions from stacks 5a, 5b and 5c shall not exceed 0.9 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 87-A-124-S2

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 87-A-124-S2
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds
Emission Limit: Combined emissions from stacks 5a, 5b and 5c (EU 5-1) shall not exceed 25 Tons/yr.
Authority for Requirement: Iowa DNR Construction Permit 87-A-124-S2

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

1. The solids content of any paint or solvent used in this booth shall not exceed 9.8 lb/gallon.
2. This booth is limited to using no more than 5102 gallons of painting and cleaning material per 12-month rolling period.
3. The process rate of this booth shall not exceed an average of 1 gal/hr calculated on a daily basis.
4. This unit shall comply with all operating limits set forth in 40 CFR Part 60 Subpart SS.

Reporting and Record Keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The VOC content of any paint or solvent used in this booth, in lb/gallon.
2. The solids content of any paint or solvent used in this booth, in lb/gallon.
3. The volume of paint and solvent used in this booth, in gallons, on a daily, monthly and rolling 12-month total basis.
4. The hours of operation daily.
5. The average hourly production rate (gal/hr) based on daily usage and daily hours of operation.
6. This unit shall comply with all applicable monitoring and/or record keeping set forth in 40 CFR Part 60 Subpart SS.

Authority for Requirement: Iowa DNR Construction Permit 87-A-124-S2
567 IAC 23.1(2)"kk"
40 CFR Part 60 Subpart SS (see Plant-Wide Conditions)

Source Emission Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (feet): 62
Stack Diameter (inches): 42
Stack Exhaust Flow Rate (scfm): 9,800
Stack Temperature (^{o}F): Ambient
Vertical, Unobstructed Discharge Required: Yes ☒ No ☐
Authority for Requirement: Iowa DNR Construction Permit 87-A-124-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant – Particulate Matter [(1)]
Stack Test to be Completed by – May 29, 2002
Test Method – Iowa Compliance Sampling Manual Method 5
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – PM-10 [(1)]
Stack Test to be Completed by – May 29, 2002
Test Method – 201A with 202, 40 CFR 51 (or approved alternative)
Authority for Requirement – 567 IAC 22.108(3)

[(1)] The unit was tested on May 8, 2002 and showed an ability to comply with the PM/PM-10 emission limit set in this permit.

The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>5 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Relevant requirements of O & M plan for this equipment: PM/PM_{10}

1. Weekly
   - Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
   - Maintain a written record of the observation and any action resulting from the inspection.
2. Record Keeping & Reporting
   - Maintenance and inspection records will be kept for five years and available upon request.
3. Quality Control
   - The filter equipment will be operated and maintained according to the manufacturer's recommendations.

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 5b

Associated Equipment

Associated Emission Unit ID Number: 5-1
Emissions Control Equipment ID Number: 5
Emissions Control Equipment Description: Dry Filter

Applicable Requirements

Emission Unit vented through this Emission Point: 5-1
Emission Unit Description: Hand Spray Paint Booth
Raw Material/Fuel: Paints
Rated Capacity: 1.0 gal/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 5%
Authority for Requirement: Iowa DNR Construction Permit 96-A-1078-S1
567 IAC 23.3(2)"d"

Pollutant: PM-10
Emission Limit(s): Combined emissions from stacks 5a, 5b, and 5c shall not exceed 0.9 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 96-A-1078-S1

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 96-A-1078-S1
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds
Emission Limit: Combined emissions from stacks 5a, 5b and 5c (EU 5-1) shall not exceed 25 Tons/yr.
Authority for Requirement: Iowa DNR Construction Permit 96-A-1078-S1

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

1. The solids content of any paint or solvent used in this booth shall not exceed 9.8 lb/gallon.
2. This booth is limited to using no more than 5102 gallons of painting and cleaning material per 12-month rolling period.
3. The process rate of this booth shall not exceed an average of 1 gal/hr calculated on a daily basis.
4. This unit shall comply with all operating limits set forth in 40 CFR Part 60 Subpart SS.

Reporting and Record Keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The VOC content of any paint or solvent used in this booth, in lb/gallon.
2. The solids content of any paint or solvent used in this booth, in lb/gallon.
3. The volume of paint and solvent used in this booth, in gallons, on a daily, monthly and rolling 12-month total basis.
4. The hours of operation daily.
5. The average hourly production rate (gal/hr) based on daily usage and daily hours of operation.
6. This unit shall comply with all applicable monitoring and/or record keeping set forth in 40 CFR Part 60 Subpart SS.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1078-S1
567 IAC 23.1(2)"kk"
40 CFR Part 60 Subpart SS (see Plant-Wide Conditions)

Source Emission Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (feet): 62
Stack Diameter (inches): 34.4
Stack Exhaust Flow Rate (scfm): 9,800
Stack Temperature (^{o}F): Ambient
Vertical, Unobstructed Discharge Required: Yes ☒ No ☐
Authority for Requirement: Iowa DNR Construction Permit 96-A-1078-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant – Particulate Matter [(1)]
Stack Test to be Completed by – May 29, 2002
Test Method – Iowa Compliance Sampling Manual Method 5
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – PM-10 [(1)]
Stack Test to be Completed by – May 29, 2002
Test Method – 201A with 202, 40 CFR 51 (or approved alternative)
Authority for Requirement – 567 IAC 22.108(3)

[(1)] The unit was tested on May 8, 2002 and showed an ability to comply with the PM/PM-10 emission limit set in this permit.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>5 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Relevant requirements of O & M plan for this equipment: PM/PM_{10}

1. Weekly
   - Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
   - Maintain a written record of the observation and any action resulting from the inspection.
2. Record Keeping & Reporting
   - Maintenance and inspection records will be kept for five years and available upon request.
3. Quality Control
   - The filter equipment will be operated and maintained according to the manufacturer's recommendations.

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 5c

Associated Equipment

Associated Emission Unit ID Number: 5-1
Emissions Control Equipment ID Number: 5
Emissions Control Equipment Description: Dry Filter

Applicable Requirements

Emission Unit vented through this Emission Point: 5-1
Emission Unit Description: Hand Spray Paint Booth
Raw Material/Fuel: Paints
Rated Capacity: 1.0 gal/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 5%
Authority for Requirement: Iowa DNR Construction Permit 96-A-1079-S1
567 IAC 23.3(2)"d"

Pollutant: PM-10
Emission Limit(s): Combined emissions from stacks 5a, 5b, and 5c shall not exceed 0.9 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 96-A-1079-S1

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 96-A-1079-S1
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds
Emission Limit: Combined emissions from stacks 5a, 5b and 5c (EU 5-1) shall not exceed 25 Tons/yr.
Authority for Requirement: Iowa DNR Construction Permit 96-A-1079-S1

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

1. The solids content of any paint or solvent used in this booth shall not exceed 9.8 lb/gallon.
2. This booth is limited to using no more than 5102 gallons of painting and cleaning material per 12-month rolling period.
3. The process rate of this booth shall not exceed an average of 1 gal/hr calculated on a daily basis.
4. This unit shall comply with all operating limits set forth in 40 CFR Part 60 Subpart SS.

Reporting and Record Keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The VOC content of any paint or solvent used in this booth, in lb/gallon.
2. The solids content of any paint or solvent used in this booth, in lb/gallon.
3. The volume of paint and solvent used in this booth, in gallons, on a daily, monthly and rolling 12-month total basis.
4. The hours of operation daily.
5. The average hourly production rate (gal/hr) based on daily usage and daily hours of operation.
6. This unit shall comply with all applicable monitoring and/or record keeping set forth in 40 CFR Part 60 Subpart SS.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1079-S1
567 IAC 23.1(2)"kk"
40 CFR Part 60 Subpart SS (see Plant-Wide Conditions)

Source Emission Characteristics

This emission point shall conform to the specifications listed below.

Stack Height (feet): 62
Stack Diameter (inches): 34.4
Stack Exhaust Flow Rate (scfm): 9,800
Stack Temperature (^{o}F): Ambient
Vertical, Unobstructed Discharge Required: Yes ☒ No ☐
Authority for Requirement: Iowa DNR Construction Permit 96-A-1079-S1

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Testing:

Pollutant – Particulate Matter [(1)]
Stack Test to be Completed by – May 29, 2002
Test Method – Iowa Compliance Sampling Manual Method 5
Authority for Requirement – 567 IAC 22.108(3)

Pollutant – PM-10 [(1)]
Stack Test to be Completed by – May 29, 2002
Test Method – 201A with 202, 40 CFR 51 (or approved alternative)
Authority for Requirement – 567 IAC 22.108(3)

[(1)] The unit was tested on May 8, 2002 and showed an ability to comply with the PM/PM-10 emission limit set in this permit.

Opacity Monitoring

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>5 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Relevant requirements of O & M plan for this equipment: PM/PM_{10}

1. Weekly
   - Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
   - Maintain a written record of the observation and any action resulting from the inspection.
2. Record Keeping & Reporting
   - Maintenance and inspection records will be kept for five years and available upon request.
3. Quality Control
   - The filter equipment will be operated and maintained according to the manufacturer's recommendations.

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 8

Associated Equipment

Associated Emission Unit ID Number: 8-1

Applicable Requirements

Emission Unit vented through this Emission Point: 8-1
Emission Unit Description: Paint Filter Drying Oven
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 2.36 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 9

Associated Equipment

Associated Emission Unit ID Number: 9-1

Applicable Requirements

Emission Unit vented through this Emission Point: 9-1
Emission Unit Description: Sterling #2 ABS Extruder
Raw Material/Fuel: ABS Plastic
Rated Capacity: 2.5 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC's)
Emission Limit(s): 1.6 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 87-A-201S1

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The amount of Acrylonitrile used in this unit shall not exceed 0.04 lb/hr.

Reporting & Record keeping:
Records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR.

1. Record amount of Acrylonitirle used each hour of operation.

Authority for Requirement: Iowa DNR Construction Permit 87-A-201S1

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 11

Associated Equipment

Associated Emission Unit ID Number: 11-1

Applicable Requirements

Emission Unit vented through this Emission Point: 11-1
Emission Unit Description: Line 8 Cabinet Foam Fixture
Raw Material/Fuel: MDI/Mastermatch
Rated Capacity: 12 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC's)
Emission Limit(s): Combined emissions from stacks 11, 40, and 60 shall not exceed 5.36 Tons/yr.
Authority for Requirement: Iowa DNR Construction Permit 95-A-217S1

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The amount of Mondur 577 used in Sources 11, 40-1, 60 combined shall not exceed 33.645×10^6 pounds per 12-month rolling period.
2. The amount of Mastermatch used in Source 11, 40-1, and 60 shall not exceed 27.05×10^6 pounds per 12-month rolling period.
3. The VOC content of Mastermatch used in Sources 11, 40-1, and 60 shall not exceed 1.97% by weight.

Reporting & Record keeping:
Records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR.

1. The amount of Mondur 577 used in this source, in pounds. Calculate and record monthly and 12-month totals rolled monthly.
2. The amount of Mastermatch used in this source, in pounds. Calculate and record monthly and 12-month totals rolled monthly.
3. The VOC content of the Mastermatch used in this source, in weight percent.

Authority for Requirement: Iowa DNR Construction Permit 95-A-217S1

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 38
Stack Diameter (inches): 18
Stack Exhaust Flow Rate (acfm): 3600
Stack Temperature (^{o}F): Ambient
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 95-A-217S1

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 12a, 12b, 12c, 13a, 13b, 14, 15, 16a, 16c, 16d

Associated Equipment

Associated Emission Unit ID Number: 12-1, 13-1, 14-1, 15-1, 16-1

Applicable Requirements

EP= Emission Point *EU= Emission Unit*

EP	EU	Description	Raw Material	Rated Capacity
12a	12-1	White E-Coat Washer	Parts Washer Chemicals Natural Gas/Propane	1.14 gal/hr 4.8 MMBtu/hr
12b	12-1	White E-Coat Washer	Parts Washer Chemicals Natural Gas/Propane	1.14 gal/hr 4.8 MMBtu/hr
12c	12-1	White E-Coat Washer	Parts Washer Chemicals Natural Gas/Propane	1.14 gal/hr 4.8 MMBtu/hr
13a	13-1	White E-Coat Dry Off Oven	Natural Gas/Propane	1.5 MMBtu/hr
13b	13-1	White E-Coat Dry Off Oven	Natural Gas/Propane	1.5 MMBtu/hr
14	14-1	White E-Coat Tank Vestibule	Paint	23 gal/hr
15	15-1	White E-Coat Dehydration Oven	Natural Gas/Propane	1.02 MMBtu/hr
16a	16-1	White E-Coat Bake Oven	Natural Gas/Propane	2.5 MMBtu/hr
16c	16-1	White E-Coat Bake Oven	Natural Gas/Propane	2.5 MMBtu/hr
16d	16-1	White E-Coat Bake Oven	Natural Gas/Propane	2.5 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The following emission limits apply to the White E-Coat Paint System.

Pollutant: Opacity
Emission Limit(s): 0%
Authority for Requirement: Iowa DNR Construction Permit 91-A-103S1
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 91-A-103S1
567 IAC 23.4(13)

Pollutant: VOC's
Emission Limit(s): 39.2 Tons/yr.
Authority for Requirement: Iowa DNR Construction Permit 91-A-103S1

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The maximum amount of VOC's in all materials used in these sources shall be limited as follows:

Material	VOC Content	Usage
CR 450 Resin	0.57 lb/gal	94,000 gal/yr.
CP406 Paste	0.68 lb/gal	18,800 gal/yr.
Cellosolve	7.50 lb/gal	1,600 gal/yr.

2. The following emission units shall comply with all operating limits in 40 CFR Part 60 Subpart SS:
   - 14-1, 15-1, 16-1

Reporting & Record keeping:

Records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR.

1. VOC content in lb/gal for each material used in the system.
2. Monthly material usage in gal/month.
3. After the initial 12 months of operations, annual material usage shall be determined on a rolling month basis each month of operations.
4. The following units shall comply with all applicable monitoring and/or record keeping set forth in 40 CFR Part 60 Subpart SS:
   - 14-1, 15-1, 16-1

Authority for Requirement: Iowa DNR Construction Permit 91-A-103S1
567 IAC 23.1(2)"kk"
40 CFR Part 60 Subpart SS (see Plant-Wide Conditions)

Source Emission Characteristics (only for EP 14)
The source shall be connected to the stack designated below.

Stack Height (feet): 37
Stack Diameter (inches): 1.5
Stack Exhaust Flow Rate (scfm): 1500
Stack Temperature (^{o}F): 78
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 91-A-103S1

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Opacity Monitoring
The facility shall check the opacity weekly during a period when the emission units in the White E-Coat Paint System are at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity >0% is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 17a, 17d, 18a, 18b, 18c

Associated Equipment

Associated Emission Unit ID Number: 17-1, 18-1

Applicable Requirements

EP= Emission Point *EU= Emission Unit*

EP	EU	Description	Raw Material	Rated Capacity
17a	17-1	Cavity Washer	Washer Chemicals	1.91 gal/hr
17d	17-1	Cavity Washer	Washer Chemicals	1.91 gal/hr
18a	18-1	Black E-Coat Washer	Washer Chemicals	1.14 gal/hr
18b	18-1	Black E-Coat Washer	Washer Chemicals	1.14 gal/hr
18c	18-1	Black E-Coat Washer	Washer Chemicals	1.14 gal/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 19

Associated Equipment

Associated Emission Unit ID Number: 19-1

Applicable Requirements

Emission Unit vented through this Emission Point: 19-1
Emission Unit Description: Black E-Coat Tank
Raw Material/Fuel: Paint
Rated Capacity: 23 gal/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 89-A-060
567 IAC 23.4(13)

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. This emission unit shall comply with all operating limits in 40 CFR Part 60 Subpart SS.

Reporting & Record keeping:
Records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR.

1. This unit shall comply with all applicable monitoring and/or record keeping set forth in 40 CFR Part 60 Subpart SS.

Authority for Requirement: 567 IAC 23.1(2)"kk"
40 CFR Part 60 Subpart SS (see Plant-Wide Conditions)

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 25

Associated Equipment

Associated Emission Unit ID Number: 25-1

Applicable Requirements

Emission Unit vented through this Emission Point: 25-1
Emission Unit Description: White Goods Hand Spray Oven
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 1.5 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

1. This unit shall comply with all operating limits set forth in 40 CFR Part 60 Subpart SS.

Reporting and Record Keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. This unit shall comply with all applicable monitoring and/or record keeping set forth in 40 CFR Part 60 Subpart SS.

Authority for Requirement: 567 IAC 23.1(2)"kk"
40 CFR Part 60 Subpart SS (see Plant-Wide Conditions)

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 26a

Associated Equipment

Associated Emission Unit ID Number: 26-1

Applicable Requirements

Emission Unit vented through this Emission Point: 26-1
Emission Unit Description: Black E-Coat Cure Oven
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 5.0 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 89-A-060
567 IAC 23.4(13)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

1. This unit shall comply with all operating limits set forth in 40 CFR Part 60 Subpart SS.

Reporting and Record Keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. This unit shall comply with all applicable monitoring and/or record keeping set forth in 40 CFR Part 60 Subpart SS.

Authority for Requirement: 567 IAC 23.1(2)"kk"
40 CFR Part 60 Subpart SS (see Plant-Wide Conditions)

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 26b

Associated Equipment

Associated Emission Unit ID Number: 26-1

Applicable Requirements

Emission Unit vented through this Emission Point: 26-1
Emission Unit Description: Black E-Coat Cure Oven
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 5.0 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

1. This unit shall comply with all operating limits set forth in 40 CFR Part 60 Subpart SS.

Reporting and Record Keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. This unit shall comply with all applicable monitoring and/or record keeping set forth in 40 CFR Part 60 Subpart SS.

Authority for Requirement: 567 IAC 23.1(2)"kk"
40 CFR Part 60 Subpart SS (see Plant-Wide Conditions)

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 26c

Associated Equipment

Associated Emission Unit ID Number: 26-1

Applicable Requirements

Emission Unit vented through this Emission Point: 26-1
Emission Unit Description: Black E-Coat Cure Oven
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 5.0 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

1. This unit shall comply with all operating limits set forth in 40 CFR Part 60 Subpart SS.

Reporting and Record Keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. This unit shall comply with all applicable monitoring and/or record keeping set forth in 40 CFR Part 60 Subpart SS.

Authority for Requirement: 567 IAC 23.1(2)"kk"
40 CFR Part 60 Subpart SS (see Plant-Wide Conditions)

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 27

Associated Equipment

Associated Emission Unit ID Number: 27-1

Applicable Requirements

Emission Unit vented through this Emission Point: 27-1
Emission Unit Description: White Goods Bake Oven
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 4.9 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

1. This unit shall comply with all operating limits set forth in 40 CFR Part 60 Subpart SS.

Reporting and Record Keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. This unit shall comply with all applicable monitoring and/or record keeping set forth in 40 CFR Part 60 Subpart SS.

Authority for Requirement: 567 IAC 23.1(2)"kk"
40 CFR Part 60 Subpart SS (see Plant-Wide Conditions)

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 34

Associated Equipment

Associated Emission Unit ID Numbers: 34-1 34-2

Applicable Requirements

Emission Unit vented through this Emission Point: 34-1
Emission Unit Description: Styrene Extruder
Raw Material/Fuel: Polystyrene
Rated Capacity: 1.25 ton/hr

Emission Unit vented through this Emission Point: 34-2
Emission Unit Description: Styrene Extruder
Raw Material/Fuel: Polystyrene
Rated Capacity: 1.25 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC's)
Emission Limit(s): 0.015 Ton/yr.
Authority for Requirement: Iowa DNR Construction Permit 92-A-062

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Reporting and Record Keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record the VOC content of the polystyrene used in these emission units.
2. Record the amount of polystyrene used in these emission units.

Authority for Requirement: 567 IAC 22.108(3)

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 37-1, 37-2, 37-3, 37-4 and 37-5

Associated Equipment

Table A-1

EP	EU	EU Description	Raw Material/ Fuel	Rated Capacity
37-1	37-1	EPS Pre-Extruder	Expandable Polystyrene Beads	137 lb/hr
37-2	37-2	EPS Bag Storage	Expandable Polystyrene Beads	137 lb/hr
37-3	37-3	EPS Condensate Vent 1	Expandable Polystyrene Beads	137 lb/hr
37-4	37-4	EPS Condensate Vent 2	Expandable Polystyrene Beads	137 lb/hr
37-5	37-5	EPS Condensate Vent 3	Expandable Polystyrene Beads	137 lb/hr

Applicable Requirements

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)

The emissions from these emission points shall not exceed the levels specified below.

Table A-2

EP	EU	VOC (tpy)	Iowa DNR Construction Permit #
37-1	37-1	30.0 (1)	99-A-009-S1
37-2	37-2		99-A-010-S1
37-3	37-3		02-A-776
37-4	37-4		02-A-777
37-5	37-5		02-A-778

(1) Total emissions for EP 37-1, EP 37-2, EP 37-3, EP 37-4 & EP 37-5 shall not exceed 30.0 tons per twelve-month rolling total.

Table A-3

Pollutant	Emission Limit(s)	Authority for Requirement
VOC	30.0 tons/yr	Iowa DNR Construction Permits referenced in Table A-2

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The total quantity of beads for EP 37-1, EP 37-2, EP 37-3, EP 37-4 & EP 37-5 shall be limited to 1,200,000 lbs per twelve-month rolling total.
2. The VOC content of the beads shall not exceed 5% by weight.

Reporting & Record keeping:

Records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR.

1. Per twelve-month rolling total, record the quantity of beads used (in lbs).
2. Maintain MSDS forms for all beads used.

Authority for Requirement: Iowa DNR Construction Permit 99-A-009-S1

Source Emission Characteristics

These emission points shall conform to the specifications listed below.

Table A-4

			Stack Characteristics				
EP	**EU**	**Construction Permit #**	**Stack Height (feet, above ground)**	**Discharge Style**	**Stack Opening (inches, dia)**	**Exhaust Temp. (^{o}F)**	**Exhaust Flowrate**
37-1	37-1	99-A-009-S1	42	Downward	3	Ambient	Natural Ventilation (no fan)
37-2	37-2	99-A-010-S1	42	Vertical	10	Ambient	1520 (scfm)
37-3	37-3	02-A-776	42	Vertical	4	Ambient	Natural Ventilation (no fan)
37-4	37-4	02-A-777	42	Vertical	4	Ambient	Natural Ventilation (no fan)
37-5	37-5	02-A-778	42	Vertical	4	Ambient	Natural Ventilation (no fan)

Authority for Requirement: Iowa DNR Construction Permits Referenced in Table A-4

The temperature and flowrate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 38-1

Associated Equipment

Associated Emission Unit ID Number: 38-1

Applicable Requirements

Emission Unit vented through this Emission Point: 38-1
Emission Unit Description: EPS Boiler
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 10.6 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 % [(1)]
Authority for Requirement: 567 IAC 23.3(2)"d" (Iowa DNR Construction Permit 02-A-551)

[(1)] Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedence of the indicator opacity of no visible emissions will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. The permit holder shall also file an "indicator opacity exceedence report" with the DNR field office and keep records as required in the policy. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter
Emission Limit(s): 0.6 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b" (Iowa DNR Construction Permit 02-A-551)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e" (Iowa DNR Construction Permit 02-A-551)

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

This unit is subject to regulation under 567 IAC 23.1(2)"lll" (40 CFR 60 Subpart Dc). The following Operational Limits and Requirements will satisfy the requirement of 40 CFR 60.48c(g).

Operational Limits:

1. This unit shall combust only natural gas

Reporting and Record Keeping:

Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. At the end of each month, the amount of each fuel combusted over the previous month must be recorded.

Authority for Requirement: Iowa DNR Construction Permit 02-A-551

Emission Point Characteristics

This emission point shall conform to the specifications listed below

Stack Height, (ft, from the ground): 43
Discharge Style: Unobstructed Vertical
Stack Opening, (inches, dia.): 20
Exhaust Temperature (^{o}F): 250
Exhaust Flowrate (scfm): 23,470

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Authority for Requirement: Iowa DNR Construction Permit 02-A-551

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 40

Associated Equipment

Associated Emission Unit ID Number: 40-1

Applicable Requirements

Emission Unit vented through this Emission Point: 40-1
Emission Unit Description: Line 8 Foam Fixture (A)
Raw Material/Fuel: MDI/Mastermatch
Rated Capacity: 12 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC's)
Emission Limit(s): Combined emissions from stacks 11, 40, and 60 shall not exceed 5.36 Tons/yr.
Authority for Requirement: Iowa DNR Construction Permit 97-A-978

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The amount of Mondur 577 used in Sources 11, 40-1, 60 combined shall not exceed 33.645×10^6 pounds per 12-month rolling period.
2. The amount of Mastermatch used in Source 11, 40-1, and 60 shall not exceed 27.05×10^6 pounds per 12-month rolling period.
3. The VOC content of Mastermatch used in Sources 11, 40-1, and 60 shall not exceed 1.97% by weight.

Reporting & Record keeping:
Records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR.

1. The amount of Mondur 577 used in this source, in pounds. Calculate and record monthly and 12-month totals rolled monthly.
2. The amount of Mastermatch used in this source, in pounds. Calculate and record monthly and 12-month totals rolled monthly.
3. The VOC content of the Mastermatch used in this source, in weight percent.

Authority for Requirement: Iowa DNR Construction Permit 97-A-978

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 36
Stack Diameter (inches): 36
Stack Exhaust Flow Rate (acfm): 15,000
Stack Temperature (^{o}F): Ambient
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 97-A-978

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 41

Associated Equipment

Associated Emission Unit ID Number: 41-1

Applicable Requirements

Emission Unit vented through this Emission Point: 41-1
Emission Unit Description: Sterling ABS Extruder
Raw Material/Fuel: Polystyrene
Rated Capacity: 1.25 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Oraganic Compounds (VOC's)
Emission Limit(s): 0.05 Ton/yr.
Authority for Requirement: Iowa DNR Construction Permit 92-A-063

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Reporting and Record Keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Record the VOC content of the polystyrene used in this emission unit.
2. Record the amount of polystyrene used in this emission unit.

Authority for Requirement: 567 IAC 22.108(3)

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 43

Associated Equipment

Associated Emission Unit ID Number: 43-1
Emissions Control Equipment ID Number: CE 43-1
Emissions Control Equipment Description: Mat Filters

Applicable Requirements

Emission Unit vented through this Emission Point: 43-1
Emission Unit Description: Model Shop Paint Booth
Raw Material/Fuel: Paints/Solvents
Rated Capacity: 18.8 gal/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit: 0.02 lb/hr, 0.09 Ton/yr.
Authority for Requirement: Iowa DNR Construction Permit 92-A-650

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr/dscf
Authority for Requirement: 567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC's)
Emission Limit: 1.70 lb/hr, 0.98 Ton/yr.
Authority for Requirement: Iowa DNR Construction Permit 92-A-650

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

This spray booth is limited to a total of 29 gallons of paint and thinner per year. All materials sprayed or used in this booth, including paints, thinners, and cleaning solvents, must comply with the VOC and tons /yr. restrictions. This booth is also limited to 115.5 hours of operation per year.

Reporting & Record keeping:
Records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR.

1. The amount of paints, thinners, cleaners, and all other VOC containing materials used in this booth, in gallons. Calculate and record monthly and 12-month totals rolled monthly.
2. The VOC content, in pounds per gallon, of each paint, thinner, cleaner, and all other VOC containing materials used in this booth.
3. The number of hours this booth is in operation. Calculate and record monthly and 12-month totals rolled monthly.

Authority for Requirement: Iowa DNR Construction Permit 92-A-650
567 IAC 22.108(3)

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 27.6
Stack Diameter (inches): 24
Stack Exhaust Flow Rate (scfm): 1500
Stack Temperature (^{o}F): Ambient
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 96-A-1080-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

1. Inspections
   - The operator will make a visual inspection of the filter media prior to each use of the booth.
   - Maintain a written record of the observation and any action resulting from the inspection.
2. Record Keeping & Reporting
   - Maintenance and inspection records will be kept for five years and available upon request.
3. Quality Control

- The filter equipment will be operated and maintained according to the manufacturer’s recommendations.

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 44

Associated Equipment

Associated Emission Unit ID Numbers: 44-1 79-1

Applicable Requirements

EU= Emission Unit

EU	Description	Raw Material	Rated Capacity
44-1	Boiler #1	Natural Gas/Propane	56.32 MMBtu/hr
79-1	Boiler #2	Natural Gas/Propane	14.7 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from Emission Unit 44-1 shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.8 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from Emission Unit 79-1 shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: Iowa DNR Construction Permit 97-A-1083
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.8 lb/MMBtu
Authority for Requirement: Iowa DNR Construction Permit 97-A-1083
567 IAC 23.3(2)"b"

Pollutant: Particulate Matter
Emission Limit(s): 0.6 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: (Emission Unit 79-1 only)

- This source is limited to using either natural gas, or LPG as a fuel source.

Authority for Requirement: Iowa DNR construction Permit 97-A-1083

Reporting & Record keeping:

Records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR.

- The amount and type of fuel consumed shall be estimated and recorded on a monthly basis.

Authority for Requirement: Iowa DNR construction Permit 97-A-1083
40 CFR Part 60 Subpart Dc
567 IAC 23.1(2)"111"

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 47

Associated Equipment

Associated Emission Unit ID Number: 47-1

Applicable Requirements

Emission Unit vented through this Emission Point: 47-1
Emission Unit Description: Door Foam Preheat Oven
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 0.26 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 48

Associated Equipment

Associated Emission Unit ID Numbers: 48-1 48-2

Applicable Requirements

Emission Unit vented through this Emission Point: 48-1
Emission Unit Description: TM/BM Door Foam
Raw Material/Fuel: MDI/Mastermatch
Rated Capacity: 2,880 lbs/hr

Emission Unit vented through this Emission Point: 48-2
Emission Unit Description: TM/BM Door Foam
Raw Material/Fuel: MDI/Mastermatch
Rated Capacity: 2,880 lbs/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compound (VOC's)
Emission Limit(s): 2.23 Ton/yr.
Authority for Requirement: Iowa DNR Construction Permit 95-A-219

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The amount of Mondur 577 used shall not exceed 13.98 x 10^6 pounds per 12-month rolling period.
2. The amount of Mastermatch used shall not exceed 12.9 x 10^6 pounds per 12-month rolling period.
3. The VOC content of Mastermatch used shall not exceed 1.97% by weight.

Reporting & Record keeping:
Records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR.

1. The amount of Mondur 577 and Mastermatch used.
2. Percent VOC's in the Mastermatch (polycat 5, polycat 41, etc.).

Authority for Requirement: Iowa DNR Construction Permit 95-A-219

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 44.7
Stack Diameter (inches): 36
Stack Exhaust Flow Rate (acfm): 2240
Stack Temperature (^{o}F): 70
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 95-A-219

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 49

Associated Equipment

Associated Emission Unit ID Number: 49-1

Applicable Requirements

Emission Unit vented through this Emission Point: 49-1
Emission Unit Description: Door Foam Cure Oven
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 0.26 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 50

Associated Equipment

Associated Emission Unit ID Number: 50-1

Applicable Requirements

Emission Unit vented through this Emission Point: 50-1
Emission Unit Description: Door Foam Cure Oven
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 0.26 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 51

Associated Equipment

Associated Emission Unit ID Number: 51-1

Applicable Requirements

Emission Unit vented through this Emission Point: 51-1
Emission Unit Description: Door Foam Preheat Oven
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 0.26 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 52

Associated Equipment

Associated Emission Unit ID Number: 52-1

Applicable Requirements

Emission Unit vented through this Emission Point: 52-1
Emission Unit Description: Door Foam Cure Oven
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 0.26 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 53

Associated Equipment

Associated Emission Unit ID Number: 53-1

Applicable Requirements

Emission Unit vented through this Emission Point: 53-1
Emission Unit Description: Door Foam Cure Oven
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 0.26 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 54

Associated Equipment

Associated Emission Unit ID Number: 54-1
Emissions Control Equipment ID Number: CE 54-1
Emissions Control Equipment Description: Mat Filters

Applicable Requirements

Emission Unit vented through this Emission Point: 54-1
Emission Unit Description: Touch Up Paint Booth #1
Raw Material/Fuel: Paints/Solvents
Rated Capacity: 18.8 gal/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 90-A-343
567 IAC 23.4(13)

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

1. This unit shall comply with all operating limits set forth in 40 CFR Part 60 Subpart SS.

Reporting and Record Keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. This unit shall comply with all applicable monitoring and/or record keeping set forth in 40 CFR Part 60 Subpart SS.

Authority for Requirement: 567 IAC 23.1(2)"kk"
40 CFR Part 60 Subpart SS (see Plant-Wide Conditions)

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 57.9
Authority for Requirement: Iowa DNR Construction Permit 96-A-1080-S2

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Relevant requirements of O & M plan for this equipment:

1. Weekly
   - Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
   - Maintain a written record of the observation and any action resulting from the inspection.
2. Reporting & Record Keeping
   - Maintenance and inspection records will be kept for five years and available upon request.
3. Quality Control
   - The filter equipment will be operated and maintained according to the manufacturer's recommendations.

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 60

Associated Equipment

Associated Emission Unit ID Numbers: 60-1 60-2

Applicable Requirements

Emission Unit vented through this Emission Point: 60-1
Emission Unit Description: Line 92 Cabinet Foam
Raw Material/Fuel: MDI/Mastermatch
Rated Capacity: 12 ton/hr

Emission Unit vented through this Emission Point: 60-2
Emission Unit Description: Line 92 Cabinet Foam
Raw Material/Fuel: MDI/Mastermatch
Rated Capacity: 12 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC's)
Emission Limit(s): Combined emissions from stacks 11, 40, and 60 shall not exceed 5.36 Tons/yr.
Authority for Requirement: Iowa DNR Construction Permit 95-A-218S1

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The amount of Mondur 577 used in Sources 11, 40-1, 60 combined shall not exceed 33.645×10^6 pounds per 12-month rolling period.
2. The amount of Mastermatch used in Source 11, 40-1, and 60 shall not exceed 27.05×10^6 pounds per 12-month rolling period.
3. The VOC content of Mastermatch used in Sources 11, 40-1, and 60 shall not exceed 1.97% by weight.

Reporting & Record keeping:
Records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR.

1. The amount of Mondur 577 used in this source, in pounds. Calculate and record monthly and 12-month totals rolled monthly.
2. The amount of Mastermatch used in this source, in pounds. Calculate and record monthly and 12-month totals rolled monthly.
3. The VOC content of the Mastermatch used in this source, in weight percent.

Authority for Requirement: Iowa DNR Construction Permit 95-A-218S1

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 36
Stack Diameter (inches): 36
Stack Exhaust Flow Rate (acfm): 15,000
Stack Temperature (^{o}F): Ambient
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 95-A-218S1

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 61

Associated Equipment

Associated Emission Unit ID Number: 61-1
Emissions Control Equipment ID Number: CE 61-1
Emissions Control Equipment Description: Mat Filters

Applicable Requirements

Emission Unit vented through this Emission Point: 61-1
Emission Unit Description: Touch Up Paint Booth #5
Raw Material/Fuel: Paints/Solvents
Rated Capacity: 18.8 gal/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.01 gr./dscf, 1.41 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 92-A-651
567 IAC 23.4(13)

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Hours of operation:

1. This unit shall not be operated between the hours of midnight and 4:00 am.

Process Throughput:

1. This unit shall comply with all operating limits set forth in 40 CFR Part 60 Subpart SS.

Reporting and Record Keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Hours of operation.
2. This unit shall comply with all applicable monitoring and/or record keeping set forth in 40 CFR Part 60 Subpart SS.

Authority for Requirement: Iowa DNR Construction Permit 92-A-651
567 IAC 23.1(2)"kk"
40 CFR Part 60 Subpart SS (see Plant-Wide Conditions)

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 60
Vertical, Unobstructed Discharge Required: Yes ☒ No ☐
Authority for Requirement: Iowa DNR Construction Permit 92-A-651

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☒ No ☐

Relevant requirements of O & M plan for this equipment:

1. Weekly
   - Inspect the spray booth system for conditions that reduce the operating efficiency of the collection system. This will include a visual inspection of the condition of the filter material.
   - Maintain a written record of the observation and any action resulting from the inspection.
2. Reporting & Record Keeping
   - Maintenance and inspection records will be kept for five years and available upon request.
3. Quality Control
   - The filter equipment will be operated and maintained according to the manufacturer's recommendations.

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 63

Associated Equipment

Associated Emission Unit ID Number: 63-1

Applicable Requirements

Emission Unit vented through this Emission Point: 63-1
Emission Unit Description: Line 92 Foam Preheat Burners
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 1.23 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 64

Associated Equipment

Associated Emission Unit ID Number: 64-1
Emissions Control Equipment ID Number: CE 64-1
Emissions Control Equipment Description: Mat Filters

Applicable Requirements

Emission Unit vented through this Emission Point: 64-1
Emission Unit Description: Touch Up Paint Booth #6
Raw Material/Fuel: Paints/Solvents
Rated Capacity: 18.8 gal/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: PM-10
Emission Limit(s): 0.01 gr./dscf, 0.84 lb/hr, 3.7 Tons/yr.
Authority for Requirement: Iowa DNR Construction Permit 93-A-269
567 IAC 23.4(13)

Pollutant: Volatile Organic Compounds (VOC's)
Emission Limit(s): 1.02 lb/hr, 4.5 Ton/yr.
Authority for Requirement: Iowa DNR Construction Permit 93-A-269

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process Throughput:

1. This unit shall comply with all operating limits set forth in 40 CFR Part 60 Subpart SS.

Reporting and Record Keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. This unit shall comply with all applicable monitoring and/or record keeping set forth in 40 CFR Part 60 Subpart SS.

Authority for Requirement: 567 IAC 23.1(2)"kk"
40 CFR Part 60 Subpart SS (see Plant-Wide Conditions)

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 44
Stack Diameter (inches): 24
Stack Exhaust Flow Rate (acfm): 9800
Stack Temperature (^{o}F): 70
Vertical, Unobstructed Discharge Required: Yes ☒ No ☐
Authority for Requirement: Iowa DNR Construction Permit 93-A-269

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 65

Associated Equipment

Associated Emission Unit ID Numbers: 65-1 65-2

Applicable Requirements

Emission Unit vented through this Emission Point: 65-1
Emission Unit Description: ABS Coextruder
Raw Material/Fuel: ABS Plastic
Rated Capacity: 2.5 ton/hr

Emission Unit vented through this Emission Point: 65-2
Emission Unit Description: ABS Coextruder
Raw Material/Fuel: ABS Plastic
Rated Capacity: 2.5 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC's)
Emission Limit(s): 1.68 lb/hr, 7.2 Ton/yr.
Authority for Requirement: Iowa DNR Construction Permit 94-A-191S1

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Material Usage:

1. The maximum VOC content of any material used in the ABS Coextruder must be 0.034% VOC by volume.

Reporting & Record keeping:
Records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR.

1. Record the type and quantity of all materials used in the ABS Coextruder.
2. Record the VOC content of all materials used in the ABS Coextruder.

Authority for Requirement: Iowa DNR Construction Permit 94-A-191S1

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 54
Stack Diameter (inches): 24
Stack Exhaust Flow Rate (acfm): 9000
Stack Temperature (^{o}F): Ambient
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 94-A-191S1

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 66

Associated Equipment

Associated Emission Unit ID Number: 66-1

Applicable Requirements

Emission Unit vented through this Emission Point: 66-1
Emission Unit Description: Pellet Humidifier Dryer
Raw Material/Fuel: Natural Gas
Rated Capacity: 1.3 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: PM-10
Emission Limit(s): 0.12 lb/hr, 0.57 Tons/yr.
Authority for Requirement: Iowa DNR Construction Permit 94-A-189S1

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s); 0.45 lb/hr, 2.0 Tons/yr.
Authority for Requirement: Iowa DNR Construction Permit 94-A-189S1

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. This dryer must be fueled exclusively by natural gas.

Authority for Requirement: Iowa DNR Construction Permit 94-A-189S1

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 34.9
Stack Diameter (inches): 24
Stack Exhaust Flow Rate (scfm): 3000
Stack Temperature (^{o}F): 600
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 94-A-189S1

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 67

Associated Equipment

Associated Emission Unit ID Number: 67-1

Applicable Requirements

Emission Unit vented through this Emission Point: 67-1
Emission Unit Description: Pellet Humidifier Dryer
Raw Material/Fuel: Natural Gas
Rated Capacity: 1.3 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: PM-10
Emission Limit(s): 0.12 lb/hr, 0.57 Tons/yr.
Authority for Requirement: Iowa DNR Construction Permit 94-A-190S1

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Pollutant: Nitrogen Oxides (NO_x)
Emission Limit(s); 0.45 lb/hr, 2.0 Tons/yr.
Authority for Requirement: Iowa DNR Construction Permit 94-A-190S1

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. This dryer must be fueled exclusively by natural gas.

Authority for Requirement: Iowa DNR Construction Permit 94-A-190S1

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 34.9
Stack Diameter (inches): 12
Stack Exhaust Flow Rate (scfm): 1400
Stack Temperature (^{o}F): 600
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 94-A-190S1

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 70

Associated Equipment

Associated Emission Unit ID Number: 70-1

Applicable Requirements

Emission Unit vented through this Emission Point: 70-1
Emission Unit Description: Gasoline Redemption Scrubber
Raw Material/Fuel: Contaminated Groundwater
Rated Capacity: 3100 gal/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

No applicable emission limits at this time.

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 71

Associated Equipment

Associated Emission Unit ID Number: 71-1

Applicable Requirements

Emission Unit vented through this Emission Point: 71-1
Emission Unit Description: South Fire House Pump
Raw Material/Fuel: Diesel
Rated Capacity: 4.6 gal/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

Reporting & Record keeping:
The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 22.108(3)

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 74

Associated Equipment

Associated Emission Unit ID Number: 74-1

Applicable Requirements

Emission Unit vented through this Emission Point: 74-1
Emission Unit Description: Wastewater Treatment Diesel Generator
Raw Material/Fuel: Diesel
Rated Capacity: 10 gal/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.6 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

Reporting & Record keeping:
The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 22.108(3)

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 75

Associated Equipment

Associated Emission Unit ID Number: 75-1

Applicable Requirements

Emission Unit vented through this Emission Point: 75-1
Emission Unit Description: North Fire House Pump
Raw Material/Fuel: Diesel
Rated Capacity: 4.3 gal/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: 567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

Reporting & Record keeping:
The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 22.108(3)

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 77

Associated Equipment

Associated Emission Unit ID Number: 77-1

Applicable Requirements

Emission Unit vented through this Emission Point: 77-1
Emission Unit Description: UPS Generator
Raw Material/Fuel: Diesel
Rated Capacity: 9.5 gal/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.6 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

Reporting & Record keeping:
The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 22.108(3)

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 78

Associated Equipment

Associated Emission Unit ID Number: 78-1

Applicable Requirements

Emission Unit vented through this Emission Point: 78-1
Emission Unit Description: UPS Generator
Raw Material/Fuel: Diesel
Rated Capacity: 9.5 gal/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.6 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 2.5 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(3)"b"(2)

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. No person shall allow, cause or permit the combustion of number 1 or number 2 fuel oil exceeding a sulfur content of 0.5 percent by weight.

Authority for Requirement: 567 IAC 23.3(3)"b"(1)

Reporting & Record keeping:
The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources:

1. The facility shall monitor the percent of sulfur by weight in the fuel oil as delivered. The documentation may be vendor supplied or facility generated.

Authority for Requirement: 567 IAC 22.108(3)

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 79

Associated Equipment

Associated Emission Unit ID Numbers: 44-1 79-1

Applicable Requirements

EU= Emission Unit

EU	Description	Raw Material	Rated Capacity
44-1	Boiler #1	Natural Gas/Propane	56.32 MMBtu/hr
79-1	Boiler #2	Natural Gas/Propane	14.7 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from Emission Unit 44-1 shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.8 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from Emission Unit 79-1 shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: Iowa DNR Construction Permit 97-A-1083
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.8 lb/MMBtu
Authority for Requirement: Iowa DNR Construction Permit 97-A-1083
567 IAC 23.3(2)"b"

Pollutant: Particulate Matter
Emission Limit(s): 0.6 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: (Emission Unit 79-1 only)

1. This source is limited to using either natural gas, or LPG as a fuel source.

Authority for Requirement: Iowa DNR construction Permit 97-A-1083

Reporting & Record keeping:

Records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR.

1. The amount and type of fuel consumed shall be estimated and recorded on a monthly basis.

Authority for Requirement: Iowa DNR construction Permit 97-A-1083
40 CFR Part 60 Subpart Dc
567 IAC 23.1(2)"111"

Source Emission Characteristics

The source shall be connected to the stack designated below.

Stack Height (feet): 34.5
Stack Diameter (inches): 27
Stack Exhaust Flow Rate (acfm): 5318
Stack Temperature (^oF): 425
Vertical, Unobstructed Discharge Required: Yes ☒ No ☐
Authority for Requirement: Iowa DNR Construction Permit 97-A-1083

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 91, 92, 110, 111, 116

Associated Equipment

Associated Emission Unit ID Number: 91-1 92-1 110-1 111-1 116-1

Applicable Requirements

EP= Emission Point *EU= Emission Unit*

EP	EU	Description	Raw Material	Rated Capacity
91	91-1	Building 66 Heater-North	Natural Gas/Propane	2.25 MMBtu/hr
92	92-1	Building 66 Heater-South	Natural Gas/Propane	2.25 MMBtu/hr
110	110-1	Building 52 Heater-South	Natural Gas/Propane	2.25 MMBtu/hr
111	111-1	Building 52 Heater-North	Natural Gas/Propane	2.25 MMBtu/hr
116	116-1	Building 61 Heater-North	Natural Gas/Propane	2.05 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter
Emission Limit(s): 0.6 lb/MMBtu
Authority for Requirement: 567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 134

Associated Equipment

Associated Emission Unit ID Number: 134-1, 134-1A
Emissions Control Equipment ID Number: CE 134a
Emissions Control Equipment Description: Afterburner
Emissions Control Equipment ID Number: CE 134b and CE 134c
Emissions Control Equipment Description: Double Cyclone

Applicable Requirements

Emission Unit vented through this Emission Point: 134-1
Emission Unit Description: Fluidized Paint Stripper
Raw Material/Fuel: Dried Paint and Foam Material
Rated Capacity: 13.0 lb/hr

Emission Unit vented through this Emission Point: 134-1A
Emission Unit Description: Natural Gas Burner
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 2.38 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 5%
Authority for Requirement: Iowa DNR Construction Permit 96-A-1080-S2
567 IAC 23.3(2)"d"

Pollutant: PM-10
Emission Limit(s): 1.0 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 96-A-1080-S2

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 96-A-1080-S2
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: Iowa DNR Construction Permit 96-A-1080-S2
567 IAC 23.3(3)"e"

Operational Limits & Requirements

The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The quantity of paint incinerated in this system shall not exceed 13.0 pounds per hour.
2. The stack on emission unit #54, Touch Up Paint Booth #1, shall be 57.9 feet high.
3. The stack on emission unit #43, Model Shop Paint Booth, shall be 27.6 feet high, 24 inches in diameter, and the exhaust assumed to be at ambient temperature.
4. This source may be fired by propane or natural gas only.
5. Equipment allowed to be burned off in this source shall include paint hooks, ABS and HIP extrusion screens, foam pumps and any other metal parts which are coated with paint or foam materials.

Reporting & Record keeping:

Records shall be kept on-site for a minimum of five (5) years and shall be available for inspection by the DNR.

1. The type of fuel burned in this source
2. The amount of paint destroyed in this source. One day per calendar month, each load put into the unit, a minimum of two, shall be weighed before and after the burnoff to determine compliance with the 13.0 lb/hr burnoff standard.

Authority for Requirement: Iowa DNR Construction Permit 96-A-1080-S2

Source Emission Characteristics

The source shall be connected to the stack designated below.

Stack Height (feet): 36
Stack Diameter (inches): 23
Stack Exhaust Flow Rate (scfm): 5400
Stack Temperature (^{o}F): 300
Vertical, Unobstructed Discharge Required: Yes ☒ No ☐
Authority for Requirement: Iowa DNR Construction Permit 96-A-1080-S2

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Stack Test Performed:

Pollutant – PM-10
Stack Test to be Completed by – May 29, 2002 (1)
Test Method – 201A with 202 40 CFR 51 (or approved alternative)
Authority for Requirement – 567 IAC 22.108(3)

(1) The unit was tested on May 8, 2002 and showed an ability to comply with the PM-10 emission limit set in this permit.

Opacity Monitoring:

The facility shall check the opacity weekly during a period when the emission unit on this emission point is at or near full capacity and record the reading. Maintain a written record of the observation and any action resulting from the observation for a minimum of five years. Opacity shall be observed to ensure that no visible emissions occur during the material handling operation of the unit. If visible emissions are observed corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If corrective action does not return the observation to no visible emissions, then a Method 9 observation will be required. If an opacity (>5 %) is observed, this would be a violation and corrective action will be taken as soon as possible, but no later than eight hours from the observation of visible emissions. If weather conditions prevent the observer from conducting an opacity observation, the observer shall note such conditions on the data observation sheet. At least three attempts shall be made to retake opacity readings at approximately 2-hour intervals throughout the day. If all observation attempts for a week have been unsuccessful due to weather, an observation shall be made the next operating day where weather permits.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒
Facility Maintained Operation & Maintenance Plan Required? Yes ☒ No ☐
(Required for Afterburner and Double Cyclone)

Facility operation and maintenance plans must be sufficient to yield reliable data from the relevant time period that are representative of the source's compliance with the applicable requirements.

Facility operation and maintenance plans are to be developed by the facility within six(6) months of the issuance date of this permit and the data pertaining to the plan maintained on site for at least 5 years. The plan and associated recordkeeping provides documentation of this facility's implementation of its obligation to operate according to good air pollution control practice.

Good air pollution control practice is achieved by adoption of quality control standards in the operation and maintenance procedures for air pollution control that are comparable to industry quality control standards for the production processes associated with this emission point.

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 135-1

Associated Equipment

Associated Emission Unit ID Number: 135-1

Applicable Requirements

Emission Unit vented through this Emission Point: 135-1
Emission Unit Description: Powder Coat Parts Washer
Raw Material/Fuel: Metal Parts, Natural Gas/Propane
Rated Capacity: 60,411 ft^2/hr, 3 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 98-A-173
567 IAC 23.3(2)"d"
[(1)]If visible emissions are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-173
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: See Source Operating Limits (page 10)
Reporting & Record keeping: See Source Operating Limits (page 10)
Authority for Requirement: Iowa DNR Construction Permit 98-A-173

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 55
Stack Diameter (inches): 16
Stack Exhaust Flow Rate (acfm): 3400
Stack Temperature (^{o}F): Ambient
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 98-A-173

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 135-2

Associated Equipment

Associated Emission Unit ID Number: 135-2

Applicable Requirements

Emission Unit vented through this Emission Point: 135-2
Emission Unit Description: Powder Coat Parts Washer
Raw Material/Fuel: Metal Parts, Natural Gas/Propane
Rated Capacity: 60,411 ft^2/hr, 3 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 98-A-174
567 IAC 23.3(2)"d"
[(1)]If visible emissions are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-174
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: Iowa DNR Construction Permit 98-A-174
567 IAC 23.3(3)"e"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: See Source Operating Limits (page 10)
Reporting & Record keeping: See Source Operating Limits (page 10)
Authority for Requirement: Iowa DNR Construction Permit 98-A-174

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 55
Stack Diameter (inches): 8
Stack Exhaust Flow Rate (scfm): 650
Stack Temperature (^{o}F): 800
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 98-A-174

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 135-3

Associated Equipment

Associated Emission Unit ID Number: 135-3

Applicable Requirements

Emission Unit vented through this Emission Point: 135-3
Emission Unit Description: Powder Coat Parts Washer
Raw Material/Fuel: Metal Parts, Natural Gas/Propane
Rated Capacity: 60,411 ft^2/hr, 3 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 98-A-175
567 IAC 23.3(2)"d"
[(1)]If visible emissions are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-175
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: Iowa DNR Construction Permit 98-A-175
567 IAC 23.3(3)"e"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: See Source Operating Limits (page 10)
Reporting & Record keeping: See Source Operating Limits (page 10)
Authority for Requirement: Iowa DNR Construction Permit 98-A-175

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 55
Stack Diameter (inches): 8
Stack Exhaust Flow Rate (scfm): 650
Stack Temperature (^{o}F): 800
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 98-A-175

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 135-4

Associated Equipment

Associated Emission Unit ID Number: 135-4

Applicable Requirements

Emission Unit vented through this Emission Point: 135-4
Emission Unit Description: Powder Coat Parts Washer
Raw Material/Fuel: Metal Parts, Natural Gas/Propane
Rated Capacity: 60,411 ft^2/hr, 3 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 98-A-176
567 IAC 23.3(2)"d"
[(1)]If visible emissions are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-176
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: Iowa DNR Construction Permit 98-A-176
567 IAC 23.3(3)"e"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: See Source Operating Limits (page 10)
Reporting & Record keeping: See Source Operating Limits (page 10)
Authority for Requirement: Iowa DNR Construction Permit 98-A-176

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 55
Stack Diameter (inches): 8
Stack Exhaust Flow Rate (scfm): 650
Stack Temperature (^{o}F): 800
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 98-A-176

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 135-5

Associated Equipment

Associated Emission Unit ID Number: 135-5

Applicable Requirements

Emission Unit vented through this Emission Point: 135-5
Emission Unit Description: Powder Coat Parts Washer
Raw Material/Fuel: Metal Parts
Rated Capacity: 60,411 ft^2/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 98-A-177
567 IAC 23.3(2)"d"
[(1)]If visible emissions are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-177
567 IAC 23.3(2)"a"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: See Source Operating Limits (page 10)
Reporting & Record keeping: See Source Operating Limits (page 10)
Authority for Requirement: Iowa DNR Construction Permit 98-A-177

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 55
Stack Diameter (inches): 18
Stack Exhaust Flow Rate (acfm): 7000
Stack Temperature (^{o}F): Ambient
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 98-A-177

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 135-6a

Associated Equipment

Associated Emission Unit ID Number: 135-6a

Applicable Requirements

Emission Unit vented through this Emission Point: 135-6a
Emission Unit Description: Powder Coat Parts Washer
Raw Material/Fuel: Metal Parts, Natural Gas/Propane
Rated Capacity: 60,411 ft^2/hr, 2 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 98-A-178
567 IAC 23.3(2)"d"
[(1)]If visible emissions are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-178
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: Iowa DNR Construction Permit 98-A-178
567 IAC 23.3(3)"e"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: See Source Operating Limits (page 10)
Reporting & Record keeping: See Source Operating Limits (page 10)
Authority for Requirement: Iowa DNR Construction Permit 98-A-178

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 55
Stack Diameter (inches): 8
Stack Exhaust Flow Rate (scfm): 650
Stack Temperature (^{o}F): 800
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 98-A-178

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 135-6b

Associated Equipment

Associated Emission Unit ID Number: 135-6b

Applicable Requirements

Emission Unit vented through this Emission Point: 135-6b
Emission Unit Description: Powder Coat Parts Washer
Raw Material/Fuel: Metal Parts, Natural Gas/Propane
Rated Capacity: 60,411 ft^2/hr, 2 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 98-A-179
567 IAC 23.3(2)"d"
[(1)]If visible emissions are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-179
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: Iowa DNR Construction Permit 98-A-179
567 IAC 23.3(3)"e"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: See Source Operating Limits (page 10)
Reporting & Record keeping: See Source Operating Limits (page 10)
Authority for Requirement: Iowa DNR Construction Permit 98-A-179

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 55
Stack Diameter (inches): 8
Stack Exhaust Flow Rate (scfm): 650
Stack Temperature (^{o}F): 800
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 98-A-179

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 135-7

Associated Equipment

Associated Emission Unit ID Number: 135-7

Applicable Requirements

Emission Unit vented through this Emission Point: 135-7
Emission Unit Description: Powder Coat Parts Washer
Raw Material/Fuel: Metal Parts
Rated Capacity: 60,411 ft^2/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 98-A-180
567 IAC 23.3(2)"d"
[(1)]If visible emissions are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-180
567 IAC 23.3(2)"a"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: See Source Operating Limits (page 10)
Reporting & Record keeping: See Source Operating Limits (page 10)
Authority for Requirement: Iowa DNR Construction Permit 98-A-180

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 55
Stack Diameter (inches): 16
Stack Exhaust Flow Rate (acfm): 3400
Stack Temperature (^{o}F): Ambient
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 98-A-180

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 135-8

Associated Equipment

Associated Emission Unit ID Number: 135-8

Applicable Requirements

Emission Unit vented through this Emission Point: 135-8
Emission Unit Description: Powder Coat Dry Off Oven
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 5 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 98-A-181
567 IAC 23.3(2)"d"
[(1)]If visible emissions are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-181
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: Iowa DNR Construction Permit 98-A-181
567 IAC 23.3(3)"e"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: See Source Operating Limits (page 10)
Reporting & Record keeping: See Source Operating Limits (page 10)
Authority for Requirement: Iowa DNR Construction Permit 98-A-181

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 55
Stack Perimeter (inches): 18x27
Stack Exhaust Flow Rate (scfm): 9500
Stack Temperature (^{o}F): 450
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 98-A-181

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 135-9

Associated Equipment

Associated Emission Unit ID Number: 135-9

Applicable Requirements

Emission Unit vented through this Emission Point: 135-9
Emission Unit Description: Powder Coat Cure Oven
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 1.5 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 98-A-182S1
567 IAC 23.3(2)"d"
[(1)]If visible emissions exceed the "indicator opacity" (25%) other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-182S1
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: Iowa DNR Construction Permit 98-A-182S1
567 IAC 23.3(3)"e"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: See Source Operating Limits (page 10)
Reporting & Record keeping: See Source Operating Limits (page 10)
Authority for Requirement: Iowa DNR Construction Permit 98-A-182S1

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 5
Stack Perimeter (inches): 16x24
Stack Exhaust Flow Rate (scfm): 6800
Stack Temperature (^{o}F): 450
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 98-A-182S1

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 135-10

Associated Equipment

Associated Emission Unit ID Number: 135-10

Applicable Requirements

Emission Unit vented through this Emission Point: 135-10
Emission Unit Description: Powder Coat Cure Oven
Raw Material/Fuel: Natural Gas/Propane
Rated Capacity: 5 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 98-A-183S1
567 IAC 23.3(2)"d"
[(1)]If visible emissions exceed the "indicator opacity" (25%) other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-183S1
567 IAC 23.3(2)"a"

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: Iowa DNR Construction Permit 98-A-183S1
567 IAC 23.3(3)"e"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: See Source Operating Limits (page 10)
Reporting & Record keeping: See Source Operating Limits (page 10)
Authority for Requirement: Iowa DNR Construction Permit 98-A-183S1

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 55
Stack Perimeter (inches): 16x24
Stack Exhaust Flow Rate (scfm): 6800
Stack Temperature (^{o}F): 450
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 98-A-183S1

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 135-11a

Associated Equipment

Associated Emission Unit ID Number: 135-11a

Applicable Requirements

Emission Unit vented through this Emission Point: 135-11a
Emission Unit Description: Powder Coat Cooling Tunnel
Raw Material/Fuel: Metal Parts
Rated Capacity: 60,411 ft^2/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 98-A-184
567 IAC 23.3(2)"d"
[(1)]If visible emissions are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-184
567 IAC 23.3(2)"a"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: See Source Operating Limits (page 10)
Reporting & Record keeping: See Source Operating Limits (page 10)
Authority for Requirement: Iowa DNR Construction Permit 98-A-184

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 55
Stack Diameter (inches): 48
Stack Exhaust Flow Rate (acfm): 50,600
Stack Temperature (^{o}F): Ambient
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 98-A-184

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 135-11b

Associated Equipment

Associated Emission Unit ID Number: 135-11b

Applicable Requirements

Emission Unit vented through this Emission Point: 135-11b
Emission Unit Description: Powder Coat Cooling Tunnel
Raw Material/Fuel: Metal Parts
Rated Capacity: 60,411 ft^2hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 %[(1)]
Authority for Requirement: Iowa DNR Construction Permit 98-A-185
567 IAC 23.3(2)"d"
[(1)]If visible emissions are observed other than startup, shutdown or malfunction, a stack test may be required to demonstrate compliance with the particulate standard.

Pollutant: Particulate Matter
Emission Limit(s): 0.1 gr./dscf
Authority for Requirement: Iowa DNR Construction Permit 98-A-185
567 IAC 23.3(2)"a"

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput: See Source Operating Limits (page 10)
Reporting & Record keeping: See Source Operating Limits (page 10)
Authority for Requirement: Iowa DNR Construction Permit 98-A-185

Source Emission Characteristics
The source shall be connected to the stack designated below.

Stack Height (feet): 55
Stack Diameter (inches): 48
Stack Exhaust Flow Rate (acfm): 50,600
Stack Temperature (^{o}F): Ambient
Vertical, Unobstructed Discharge Required: Yes ☐ No ☒
Authority for Requirement: Iowa DNR Construction Permit 98-A-185

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: 140

Associated Equipment

Associated Emission Unit ID Number: 140
Emission Control Equipment ID Number: CE 140
Emission Control Equipment Description: Fume Scrubber

Applicable Requirements

Emission Unit vented through this Emission Point: 140
Emission Unit Description: Acid Wash Tank
Raw Material/Fuel: 20% Hydrochloric Acid Solution
Rated Capacity: 1,500 gallons

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 % (1)
Authority for Requirement: 567 IAC 23.3(2)"d" (Iowa DNR Construction Permit 02-A-552)

(1) Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedence of the indicator opacity of (10%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. The permit holder shall also file an "indicator opacity exceedence report" with the DNR field office and keep records as required in the policy. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)
Emission Limit(s): 5.57 lb/hr, 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a" (Iowa DNR Construction Permit 02-A-552)

Pollutant: PM_{10}
Emission Limit(s): 3.29 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 02-A-552

Source Emission Characteristics
This emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 38
Stack Opening (inches, dia.): 30
Stack Exhaust Flow Rate (scfm): 12,000
Stack Temperature (^{o}F): 70
Discharge Style: Unobstructed Vertical
Authority for Requirement: Iowa DNR Construction Permit 02-A-552

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 141

Associated Equipment

Associated Emission Unit ID Number: 141
Emission Control Equipment ID Number: CE 141
Emission Control Equipment Description: Scrubber

Applicable Requirements

Emission Unit vented through this Emission Point: 141
Emission Unit Description: Waste Water Tanks
Raw Material/Fuel: Acidic Fumes
Rated Capacity: 12.84 Square Feet

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity
Emission Limit(s): 40 % [(1)]
Authority for Requirement: 567 IAC 23.3(2)"d" (Iowa DNR Construction Permit 02-A-553)

[(1)] Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedence of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. The permit holder shall also file an "indicator opacity exceedence report" with the DNR field office and keep records as required in the policy. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf
Authority for Requirement: 567 IAC 23.3(2)"a" (Iowa DNR Construction Permit 02-A-553)

Pollutant: PM_{10}
Emission Limit(s): 3.29 lb/hr
Authority for Requirement: Iowa DNR Construction Permit 02-A-553

Source Emission Characteristics
This emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 30
Stack Opening (inches, dia.): 30
Stack Exhaust Flow Rate (scfm): 4,000
Stack Temperature (^{o}F): 70
Discharge Style: Unobstructed Vertical
Authority for Requirement: Iowa DNR Construction Permit 02-A-553

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 144

Associated Equipment

Associated Emission Unit ID Number: 144

Applicable Requirements

Emission Unit vented through this Emission Point: 144
Emission Unit Description: Building 52 Door Foam
Raw Material/Fuel: Foam Chemicals and Blowing Agent
Rated Capacity: 28.80 lb/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 2.0 tpy
Authority for Requirement: Iowa DNR Construction Permit 02-A-733

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The number of units produced in this emission unit shall not exceed 35,050 units per rolling-12-month period.

Reporting & Record keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The facility shall keep records documenting the number of units produced in this emission unit on a monthly basis. During the first 12 months of operation, determine the cumulative number of units produced for each month of operation. After the first 12 months of operation, determine the annual number of units produced on a 12 month rolling basis for each month of operation.
2. The MSDS of each material used in this emission unit shall be kept on-site and available for inspection by the DNR.

Authority for Requirement: Iowa DNR Construction Permit 02-A-733

Source Emission Characteristics
This emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 44
Stack Opening (inches, dia.): 12
Stack Exhaust Flow Rate (scfm): 2400
Stack Temperature (^{o}F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: Iowa DNR Construction Permit 02-A-733

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 145

Associated Equipment

Associated Emission Unit ID Number: 145

Applicable Requirements

Emission Unit vented through this Emission Point: 145
Emission Unit Description: Building 52 Cabinet Foam
Raw Material/Fuel: Foam Chemicals and Blowing Agent
Rated Capacity: 105.4 lb/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Volatile Organic Compounds (VOC)
Emission Limit(s): 6.0 tpy
Authority for Requirement: Iowa DNR Construction Permit 02-A-734

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Process throughput:

1. The number of units produced in this emission unit shall not exceed 35,050 units per rolling-12-month period.

Reporting & Record keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. The facility shall keep records documenting the number of units produced in this emission unit on a monthly basis. During the first 12 months of operation, determine the cumulative number of units produced for each month of operation. After the first 12 months of operation, determine the annual number of units produced on a 12 month rolling basis for each month of operation.
2. The MSDS of each material used in this emission unit shall be kept on-site and available for inspection by the DNR.

Authority for Requirement: Iowa DNR Construction Permit 02-A-734

Source Emission Characteristics
This emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 44
Stack Opening (inches, dia.): 12
Stack Exhaust Flow Rate (scfm): 2400
Stack Temperature (^{o}F): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: Iowa DNR Construction Permit 02-A-734

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements
The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 146

Associated Equipment

Associated Emission Unit ID Number: 146

Applicable Requirements

Emission Unit vented through this Emission Point: 146
Emission Unit Description: Building 52 Brazing
Raw Material/Fuel: Natural Gas
Rated Capacity: 50 scf/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Opacity [(1)]
Emission Limit(s): 40 %
Authority for Requirement: 567 IAC 23.3(2)"d" (Iowa DNR Construction Permit 02-A-735)

[(1)] Per DNR Air Quality Policy 3-b-08, Opacity Limits, an exceedence of the indicator opacity of (25%) will require the owner/operator to promptly investigate the emission unit and make corrections to operations or equipment associated with the exceedence. The permit holder shall also file an "indicator opacity exceedence report" with the DNR field office and keep records as required in the policy. If exceedences continue after the corrections, the DNR may require additional proof to demonstrate compliance (e.g., stack testing).

Pollutant: Particulate Matter (PM)
Emission Limit(s): 0.1 gr/dscf, average of three one-hour runs
Authority for Requirement: 567 IAC 23.3(2)"a" (Iowa DNR Construction Permit 02-A-735)

Pollutant: Sulfur Dioxide (SO_2)
Emission Limit(s): 500 ppmv
Authority for Requirement: 567 IAC 23.3(3)"e" (Iowa DNR Construction Permit 02-A-735)

Source Emission Characteristics
This emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 44
Stack Opening (inches, dia.): 12
Stack Exhaust Flow Rate (scfm): 2400
Stack Temperature (^oF): Ambient
Discharge Style: Vertical Unobstructed
Authority for Requirement: Iowa DNR Construction Permit 02-A-735

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: 147

Associated Equipment

Associated Emission Unit ID Number: 147

Applicable Requirements

Emission Unit vented through this Emission Point: 147
Emission Unit Description: Chemical Tote Vent
Raw Material/Fuel: Niax, Polycat 5, Polycat 41
Rated Capacity: 0.55 lb/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

There are no emission limits at this time.

Operational Limits & Requirements
The owner/operator of this equipment shall comply with the operational limits and requirements listed below.

Reporting & Record keeping:
Records shall be kept on site for at least five years and shall be available for inspection by the Department.

1. Each tote exchange shall be logged. The log shall contain the date of each exchange along with the material in the new tote.

Authority for Requirement: Iowa DNR Construction Permit 03-A-456

Source Emission Characteristics
This emission point shall conform to the specifications listed below.

Stack Height (feet, from the ground): 43
Stack Opening (inches, dia.): 10
Stack Exhaust Flow Rate (scfm): 1000
Stack Temperature (^{o}F): Ambient (68 ^{o}F)
Discharge Style: Unobstructed Vertical
Authority for Requirement: Iowa DNR Construction Permit 03-A-456

The temperature and flow rate are intended to be representative and characteristic of the design of the permitted emission point. The Department recognizes that the temperature and flow rate

may vary with changes in the process and ambient conditions. If it is determined that any of the emission point design characteristics are different than the values stated above, the owner/operator must notify the Department and obtain a permit amendment, if required.

Monitoring Requirements

The owner/operator of this equipment shall comply with the monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

Emission Point ID Number: F-BRAZE (Vent Internally)

Associated Equipment

Associated Emission Unit ID Numbers: f-001 f-003 f-005 f-019 f-021 f-029 f-041 f-043 f-046 f-050 f-169

Applicable Requirements

EU= Emission Unit

EU	Description	Raw Material	Rated Capacity
f-001	Line 92 Braze Station	Brazing Rod Natural Gas	1.4 lb/hr 0.21 MMBtu/hr
f-003	Line 92 Freon Charge Braze Station	Brazing Rod Natural Gas	0.9 lb/hr 0.10 MMBtu/hr
f-005	Line 92 Braze Station	Flux Natural Gas	0.02 lb/hr 0.026 MMBtu/hr
f-019	Line 8 Braze Station	Brazing Rod Natural Gas	1 lb/hr 0.10 MMBtu/hr
f-021	Line 8 Braze Station	Flux Natural Gas	0.04 lb/hr 0.10 MMBtu/hr
f-029	Line 8 Freon Charge Braze Station	Brazing Rod Natural Gas	0.3 lb/hr 0.026 MMBtu/hr
f-041	Line 2 Braze Station	Brazing Rod Natural Gas	1.4 lb/hr 0.21 MMBtu/hr
f-043	Braze Training Station	Flux Natural Gas	0.02 lb/hr 0.026 MMBtu/hr
f-046	Line 2 Braze Station	Flux Natural Gas	0.06 lb/hr 0.10 MMBtu/hr
f-050	Line 2 Freon Charge Braze Station	Brazing Rod Natural Gas	0.3 lb/hr 0.026 MMBtu/hr
f-169	Hobart Brazing-Tubing	Brazing Rod Natural Gas	1 lb/hr 0.41 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: F-MOLDING (Vent Internally)

Associated Equipment

Associated Emission Unit ID Numbers: f-013 f-030 f-031 f-032 f-033 f-034 f-035

Applicable Requirements

EU= Emission Unit

EU	Description	Raw Material	Rated Capacity
f-013	Rotovac Molder	Polystyrene	0.36 ton/hr
f-030	Rotovac Molder	Polystyrene	0.24 ton/hr
f-031	Rotovac Molder	Polystyrene	0.305 ton/ hr
f-032	Rotovac Molder	Polystyrene	0.158 ton/hr
f-033	Rotovac Molder	ABS Sheets	0.441 ton/hr
f-034	Rotovac Molder	ABS Sheets	0.353 ton/hr
f-035	Rotovac Molder	ABS Sheets	0.441 ton/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Periodic Monitoring Requirements

The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: F-Welding (Vent Internally)

Associated Equipment

Associated Emission Unit ID Number: f-016 f-112 f-149

Applicable Requirements

EU= Emission Unit

EU	Description	Raw Material	Rated Capacity
f-016	RWC Door Gas Welder	Welding Rod	0.3 lb/hr
f-112	Model Shop Welder	Welding Rod	0.3 lb/hr
f-149	Construction Welder	Welding Rod	0.15 lb/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

Emission Point ID Number: F-Misc. (Vent Internally)

Associated Equipment

Associated Emission Unit ID Numbers: f-014 f-015 f-135 f-150 f-192

Applicable Requirements

EU= Emission Unit

EU	Description	Raw Material	Rated Capacity
f-014	In Line Thermoformer	ABS Sheets	0.77 ton/hr
f-015	In Line Thermoformer	ABS Sheets	0.77 ton/hr
f-135	Wood Working Area Saw	Wood	150 linear ft/hr
f-150	Gas Blender Bleed Off Area	Propane	22.1 gal/hr
f-192	Air Make Up Unit Burner	Natural Gas/Propane	20.48 MMBtu/hr

Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)
The emissions from this emission point shall not exceed the levels specified below.

Pollutant: Fugitive Dust
Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

Periodic Monitoring Requirements
The owner/operator of this equipment shall comply with the periodic monitoring requirements listed below.

Agency Approved Operation & Maintenance Plan Required? Yes ☐ No ☒

Facility Maintained Operation & Maintenance Plan Required? Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)"b"

IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*

G2. Permit Expiration

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Urbandale, Iowa 50322, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to EPA Region VII, Attention: Chief of Air Permits, 901 N. 5th St., Kansas City, KS 66101. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the

compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 22.108 (5)*

G6. Annual Fee

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
    a. Form 1.0 "Facility Identification";
    b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
    c. Form 5.0 "Title V annual emissions summary/fee"; and
    d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
    a. Form 1.0 "Facility Identification";
    b. Form 5.0 "Title V annual emissions summary/fee";
    c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

G7. Inspection of Premises, Records, Equipment, Methods and Discharges

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

G8. Duty to Provide Information

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

G9. General Maintenance and Repair Duties

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

G10. Recordkeeping Requirements for Compliance Monitoring

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
    a. The date, place and time of sampling or measurements
    b. The date the analyses were performed.
    c. The company or entity that performed the analyses.
    d. The analytical techniques or methods used.
    e. The results of such analyses; and
    f. The operating conditions as existing at the time of sampling or measurement.
    g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.

3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:

a. Comply with all terms and conditions of this permit specific to each alternative scenario.

b. Maintain a log at the permitted facility of the scenario under which it is operating.

c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

G11. Evidence used in establishing that a violation has or is occurring.

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:

a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;

b. Compliance test methods specified in 567 Chapter 25; or

c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.

2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:

a. Any monitoring or testing methods provided in these rules; or

b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. 567 IAC 21.5(1)-567 IAC 21.5(2)

G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

G13. Hazardous Release

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

G14. Excess Emissions and Excess Emissions Reporting Requirements

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a

violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

2. Excess Emissions Reporting

a. Oral Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1)) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable visible emission standard by more than 10 percent opacity. The oral report may be made in person or by telephone and shall include as a minimum the following:

i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
ii. The estimated quantity of the excess emission.
iii. The time and expected duration of the excess emission.
iv. The cause of the excess emission.
v. The steps being taken to remedy the excess emission.
vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
ii. The estimated quantity of the excess emission.
iii. The time and duration of the excess emission.
iv. The cause of the excess emission.
v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.

vi. The steps that were taken to limit the excess emission.
vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
b. The facility at the time was being properly operated;
c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. *567 IAC 22.108(16)*

G15. Permit Deviation Reporting Requirements

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.

b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
d. The changes are not subject to any requirement under Title IV of the Act.
e. The changes comply with all applicable requirements.
f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:

i. A brief description of the change within the permitted facility,
ii. The date on which the change will occur,
iii. Any change in emission as a result of that change,
iv. The pollutants emitted subject to the emissions trade
v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
vii. Any permit term or condition no longer applicable as a result of the change. *567 IAC 22.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*
3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*
4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule. Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*
5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

G18. Duty to Modify a Title V Permit

1. Administrative Amendment.

a. An administrative permit amendment is a permit revision that is required to do any of the following:

i. Correct typographical errors
ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;

iii. Require more frequent monitoring or reporting by the permittee; or

iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.

b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.

c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.

2. Minor Permit Modification.

a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:

i. Do not violate any applicable requirements

ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.

iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.

iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;

v. Are not modifications under any provision of Title I of the Act; and

vi. Are not required to be processed as significant modification.

b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:

i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.

ii. The permittee's suggested draft permit

iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and

iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).

c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify.

However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.

3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. *567 IAC 22.111-567 IAC 22.113* The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in which event the operation of the changed source may not commence until the department revises the permit. *567 IAC 22.105(1)"a"(4)*

G19. Duty to Obtain Construction Permits

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. *567 IAC 22.1(1)*

G20. Asbestos

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when conducting any renovation or demolition activities at the facility. *567 IAC 23.1(3)"a", and 567 IAC 23.2*

G21. Open Burning

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. *567 IAC 23.2 except 23.2(3)"h"; 567 IAC 23.2(3)"h" - State Only*

G22. Acid Rain (Title IV) Emissions Allowances

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. *567 IAC 22.108(7)*

G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.

b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.

c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.

d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.

d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)

e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.

f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant,

5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

G24. Permit Reopenings

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*

2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.

a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to June 25, 1993.
c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*

3. A permit shall be reopened and revised under any of the following circumstances:
a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to June 25, 1993, provided that the reopening may be stayed pending judicial review of that determination;
b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*

4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

G25. Permit Shield

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
a. Such applicable requirements are included and are specifically identified in the permit; or
b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.

2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.

3. A permit shield shall not alter or affect the following:

a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;
d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

G26. Severability

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)*

G27. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

G28. Transferability

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought to determine transferability of the permit. *567 IAC 22.111 (1)"d"*

G29. Disclaimer

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with an applicable requirement. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator
Iowa DNR, Air Quality Bureau
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-6001

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.
567 IAC 25.1(7)"a", 567 IAC 25.1(9)

G31. Prevention of Air Pollution Emergency Episodes

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons.
567 IAC 26.1(1)

G32. Contacts List

The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits
EPA Region 7
Air Permits and Compliance Branch
901 N. 5th Street
Kansas City, KS 66101
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau
Iowa Department of Natural Resources
7900 Hickman Road, Suite #1
Urbandale, IA 50322
(515) 242-5100

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

Field Office 1
909 West Main – Suite 4
Manchester, IA 52057
(563) 927-2640

Field Office 2
P.O. Box 1443
2300-15th St., SW
Mason City, IA 50401
(641) 424-4073

Field Office 3
1900 N. Grand Ave.
Spencer, IA 51301
(712) 262-4177

Field Office 4
1401 Sunnyside Lane
Atlantic, IA 50022
(712) 243-1934

Field Office 5
401 SW 7th Street, Suite I
Des Moines, IA 50309
(515) 725-0268

Field Office 6
1023 W. Madison
Washington, IA 52353-1623
(319) 653-2135

Polk County Planning & Development
Air Quality Division
5885 NE 14th St.
Des Moines, IA 50313
(515) 286-3351

Linn County Public Health Dept.
Air Pollution Control Division
501 13th St., NW
Cedar Rapids, IA 52405
(319) 892-6000

V. Appendix A: DNR Air Quality Policy 3-b-08 (Opacity Limits)

IOWA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

POLICY/PROCEDURE STATEMENT

TOPIC: Opacity Limits

Policy Procedure Number: 3-b-08 **Replaces Number: None**

Date: **Effective Date:** November 12, 1998

Preparer: David Phelps **Reviewer:**

Approval: **Bureau Chief: Peter Hamlin** **Date:** 11/12/98

Division Administrator: Allan Stokes **Date:** 11/12/98

Applicable Code of Iowa or Iowa Administrative Code Rule: 23.3(2)d

"No person shall allow, cause or permit the emission of visible air contaminants into the atmosphere from any equipment, internal combustion engine, premise fire, open fire or stack, equal to or in excess of 40 percent opacity or that level specified in a construction permit, except as provided below and in 567-Chapter 24."

REASON OR BACKGROUND

The default opacity limit allowed by regulation is 40%. This limit was established with the original regulations in 1970. It is generally accepted that opacity greater than 40% was evidence of a mass emission standard exceedence. More recently, there have been requests from facilities for limits much lower than that allowed by the regulations, in some cases less than 0.01 gr/scf to which a 40% opacity limit does not correspond. Since opacity is used as an indicator of the particulate emission rate, listing an indicated potential problem opacity that is more in line with the mass emission rate is useful. In order to have the authority to set limits lower than 40%, subrule 23.3(2)d was changed. This change allows the department the ability to set opacity limits at a level that more closely corresponds to what would be observed by the source when operating in compliance with its mass emission rate.

Except in the case where a specific opacity limit is established by rule, it has been the general policy of the Department not to take action on opacity limits directly. Rather, if it is felt that a violation of the mass emission rate exists that is not attributable to some abnormal event, a stack test would be required to verify compliance. However, the Department reserves the right to use the results of formal opacity readings as evidence of an exceedence.

DETAILS

It shall be the policy of the Department to list the default opacity as a permit condition and in addition an indicator opacity may be listed.

For ease of proving continual compliance a source may request a 'no visible emissions' opacity limit which allows proof of compliance without having a certified opacity reading taken. In this case any visible emissions would be an exceedence.

The IDNR permit writer may list an opacity that will be a indicator of possible mass emission rate exceedence. If the permitee wishes, the recommended indicator opacity may be changed by demonstrating compliance with the mass emission rate during a stack test while emitting the new desired indicator opacity. If the tested mass emission rate is less than the permitted emission rate, then the desired indicator opacity may be set at a proportionally higher level than observed during the stack test.

If an opacity measurement, taken in accordance with an approved reference method for opacity, (generally USEPA Method 9 or 22) exceeds the indicator opacity then the facility will promptly investigate the source and make corrections. However, if after corrections are made the opacity continues to exceed the indicator opacity the Department may require additional proof to demonstrate compliance with the mass emissions limits.

Recommended indicator opacities shall be:

Grain Loading gr./scf	Recommended Indicator Opacity
<0.01 gr./scf	non specified in permit *
0.01 to 0.06 gr./scf	10% Opacity
0.061 to 0.08 gr./scf	20% Opacity
0.081 to 0.1 gr./scf	25% Opacity

* A line is added to the permit that states: "If visible emissions are observed other that start-up, shut-down, or malfunction, a stack test may be required to demonstrate compliance with the particulate standard."

If a source is a batch process the indicator opacity shall be based on the table above, but the opacity averaging period, for comparison to the indicator opacity, shall be the entire batch cycle. For purposes of comparison to the indicator opacity readings shall be taken during the entire cycle and averaged.

Sources are also given the opportunity to set source specific limits to be coordinated with the initial compliance test. These may then be incorporated into the permit.

In all cases an exceedence of the indicator opacity will require the permitee to file an "indicator opacity exceedence report" to the IDNR regional office. The reporting requirements shall be:

Oral report of excess indicator opacity. An incident of excess indicator opacity (other than an incident of excess indicator opacity during a period of startup, shutdown, or cleaning) shall be reported to the appropriate regional office of the department within eight hours of, or at the start of the first working day following the onset of the of the incident. The reporting exemption for an incident of excess indicator opacity during startup and shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in subrule 25.1(6).

An oral report of excess indicator opacity is not required for a source with operational continuous monitoring equipment (as specified in subrule 25.1(1) if the incident of excess indicator opacity continues for less than 30 minutes and does not exceed the applicable visible emission standard by more than 10 percent opacity.

The oral report may be made in person or by telephone and shall include as a minimum the following:

a) The identity of the equipment or source operation form which the excess indicator opacity originated and the associated stack or emission point.
b) The estimated quantity of the excess indicator opacity.
c) The time and expected duration of the excess indicator opacity.
d) The cause of the excess indicator opacity.
e) The steps being taken to remedy the excess indicator opacity.
f) The steps being taken to limit the excess indicator opacity in the interim period.

Written report of excess indicator opacity. A written report of an incident of excess indicator opacity shall be submitted as a follow-up to all required oral reports to the department within seven (7) days of the onset of the upset condition, and shall include as a minimum the following:

a) The identity of the equipment or source operation point from which the excess emission originate and the associated stack or emission point.
b) The estimated quantity of the excess indicator opacity.
c) The time and duration of the excess indicator opacity.
d) The cause of the excess indicator opacity.
e) The steps that were taken to remedy and to prevent the recurrence of the incident of excess indicator opacity.
f) The steps that were taken to limit the excess indicator opacity.
g) If the owner claims that the excess indicator opacity was due to malfunction, documentation to support this claim.

Exceptions to this policy:

1) In the case where a facility has an opacity limit established in an existing permit, no change will be made to that permit limit unless the permit is being modified for other purposes.
2) If the facility has a continuous opacity monitor, this policy shall not apply.
3) This policy shall not apply to opacity limits established in Prevention of Significant Deterioration (PSD) permits or permits that were established for maintenance plans for nonattainment areas.
4) This policy shall not apply where an opacity limit is established as an indication of hazardous air pollutants.

5) This policy shall not apply where an opacity limit is established by a rule, New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAPS), etc.